Modeling Support Data

### **Modeling Support Data**

Tables presented in this Appendix are as follows:

8.1B-1	Screening Modeling Parameters
8.1B-2	Emission Rates and Stack Parameters for Modeling
8.1B-3	Summary Table of Building Dimensions
8.1B-4	Detailed Stack and Building Information
8.1B-5	Riverside County Historical Air Data
8.1B-6	Orange County Historical Air Data
8.1B-7	San Bernardino Historical Air Data
8.1B-8	SCAQMD Significance Thresholds
8.1B-9	SCAQMD Met Data Listing
8.1B-10	Construction Impacts Modeling Input Data
8.1B-11	Construction Impacts Summary

In addition, this appendix contains data on the annual and quarterly wind roses for the Riverside met data site, climatic summaries for Sun City and San Jacinto, and Figures 8.1B-1 and 8.1B-2 (SLAMS and NAMS station locations).

Modeling input/output files are included in the enclosed CDs.

GE LMS100 PA Gas Turbines Parameters for Screening Modeling

Scenario	GE Case No.	Ambient Temp (*F)	Case Description	Stack Height (m)	Temp (Kelvin)	Exhaust Vel (m/s)	Stack Diam (m)	NO <sub>x</sub> (g/s/tur)	SO <sub>2</sub> (g/s/tur)	CO (g/s/tur)	PM <sub>10</sub> (g/s/tur)
910	112	110	110 deg F Full Load w/ EVAP	27.43	697.7	30.8	4,15	0.945	0.078	1,399	0.75600
2	113	110	110 deg F 75%l Load w/ EVAP	27.43	686.1	25.9	4.15	0.743	0.078	1.096	0.630
3	114	110	110 deg F 50%l Load w/ EVAP	27.43	696.7	20.8	4.15	0.554	0.078	0.806	0.504
4	106	84	84 deg F Full Load w/ EVAP	27.43	697.9	30.8	4.15	0.945	0.078	1.386	0.756
5	107	84	84 deg F 75%l Load w/ EVAP	27.43	686.3	25.9	4.15	0.743	0.078	1.084	0.630
6	108	84	84 deg F 50% Load w/ EVAP	27.43	696.2	20.8	4.15	0.542	0.078	608.0	0.504
7	103	59	59 deg F Full Load w/ EVAP	27.43	689.6	32.1	4.15	1.008	0.078	1.462	0.756
в	104	59	59 deg F 75%l Load w/ EVAP	27.43	677.7	26.9	4.15	0.781	0.078	1,159	0.630
9	105	.59	59 deg F 50% Load w/ EVAP	27.43	687,4	21.5	4,15	0.580	0.078	0.844	0.504
10	100	30	30 deg F Full Load no EVAP	27.43	678.5	32.4	4.15	1.021	0.078	1.498	0.756
11	101	30	30 deg F 75% Load no EVAP	27.43	670.9	27.2	4.15	0.794	0.078	1.164	0.630
12	102	30	30 deg F 50% Load no EVAP	27.43	680.5	21.8	4.15	0.580	0.078	0.852	0.504

Normalized ISCST3 Results for Screening Modeling (i.e., ug/m3 at 0.2 g/s/tur, total 1 g/s all turbines)

Scenario	GE Case No.	Ambient Temp (°F)	Case Description	1-Hour	3-Hour	B-Hour	24-Hour	Annual
1	112	110	110 deg F Full Load w/ EVAP	7.29724	7.27604	5.12571	2.71911	na
2	113	110	110 deg F 75%I Load w/ EVAP	8.02680	8.01750	5.74159	3.00183	na
3	114	110	110 deg F 50% Load w/ EVAP	8.41829	8.41379	6.19282	3.15318	na
4	106	84	84 deg F Full Load w/ EVAP	7.29643	7.27521	5.12504	2.71879	na
5	107	84	84 deg F 75%i Load w/ EVAP	8.02643	8.01711	5.74099	3.00160	na
6	108	84	84 deg F 50% Load w/ EVAP	8.41787	8.41336	6.19187	3.15301	na
7	103	59	59 deg F Full Load w/ EVAP	7.14541	7.12451	5.00739	2.66246	na
8	104	59	59 deg F 75%l Load w/ EVAP	7.93361	7.91770	5,65117	2.96213	na
9	105	59	59 deg F 50% Load w/ EVAP	8.39424	8.38991	6.14456	3.14432	na
10	100	30	30 deg F Full Load no EVAP	7.15300	7.13333	5.01546	2.66636	na
11	101	30	30 deg F 75% Load no EVAP	7.91833	7.90295	5,63936	2.95687	na
12	102	30	30 deg F 50% Load no EVAP	8.38747	8.38330	6.13155	3.14171	na

Scenario		Amblent Temp (*F)	Case Description	1-Hour NO,	Annual NO,	1-Hour SO <sub>2</sub>	3-Hour SO <sub>2</sub>	24-Hour SO <sub>2</sub>	Annual SO <sub>2</sub>	1-Hour CO	8-Hour CO	24-Hour PM10	Annual PM10
a	112	110	110 deg F Full Load w/ EVAP	34.4796	na	2.8496	2.8413	1.0618	na	51.0296	35,8441	10.27B2	na
2	113	110	110 deg F 75% Load w/ EVAP	29.8356	na	3.1345	3,1308	1,1722	na	43,9949	31,4697	9.4558	na
3	114	110	110 deg F 50% Load w/ EVAP	23.3355	na	3.2873	3,2856	1.2313	na	33.9425	24.9695	7.9460	na
4	106	84	84 deg F Full Load w/ EVAP	34,4766	na	2.8493	2.8410	1.0617	па	50.5643	35.5165	10.2770	na
5	107	84	84 deg F 75%/Load w/EVAP	29.8342	na	3,1343	3.1307	1,1721	na	43,4872	31.1047	9.4550	na
6	108	84	84 deg F 60%l Load w/ EVAP	22.8040	na	3.2872	3.2854	1,2313	na	33.9409	24.9656	7.9456	na
7	103	59	59 deg F Full Load w/ EVAP	36.0129	na	2.7903	2.7821	1.0397	na	52.2187	36.5940	10.0641	na
8	104	59	59 deg F 75%l Load w/ EVAP	30,9887	na	3.0981	3.0919	1.1567	na	45.9632	32.7542	9.3307	na
9	105	59	59 deg F 50%l Load w/ EVAP	24.3265	na	3.2780	3.2763	1,2279	na	35,4321	25,9362	7.9237	na
10	100	30	30 deg F Full Load no EVAP	36,5018	na	2.7932	2.7856	1.0412	na	53.2183	37.3150	10.0788	na
11	101	30	30 deg F 75% Load no EVAP	31,4279	na	3.0921	3,0861	1,1547	na	46.0847	32,8211	9.3141	na
12	102	30	30 deg F 50% Load no EVAP	24.3069	na	3.2753	3.2737	1.2268	na	35,7306	26,1204	7,9171	na

TABLE 8.18-2 Emission Rates and Stack Parameters for Modeling

Averaging Period: One hour Tuthro 1 Tuthro 2 Tuthro 3 Tuthro 4 Tuthro 5 Tuthro 5 Tuthro 6 Tuthro 6 Tuthro 6 Tuthro 7 Tut			N N N	Velocity, rn/s	Ň	ŝ	8	PM	ŏ	all a	8	PMio
urbrio 1 urbrio 2 urbrio 3 urbrio 4 urbrio 5 in Generator in Generator porting Transchoots												
utbre 1 urbre 3 urbre 4 in Geneator in Geneator	22.42	0011	5 644		.00	9500		į		6	:	î
urbre 4 urbre 4 urbre 5 m Geneator m Generator pourpre 7 march controls	27.43	4.1500	678.5	32.4	1.021	0.078	1.487	, P	9 60	0.62		n/a
urbhe 4 m Generalor m Purp Propries Purp Propries Purp Propries Towner (seek not)	27.43	4.1500	678.5	32.4	1.021	0.078	1.487	n/a	9.1	0.62	11.8	n/a
urbine 5 m Generator ire Pump Popiera Transo feach sett	27.43	4.1500	678.5	32.4	1,021	0.078	1.487	n/a	9.1	0.62	11.8	n/a
m Generator ire Pump poding Touce (each cell	27.43	4.1500	678.5	32.4	1,021	0.078	1.487	n/a	6.1	0.62	11.8	n/a
ire Pump	12.192	0.2030	698.2	200.0	4.038	0.004	0.583	n/a	32.03	0.03	4.83	n/a
Too does rome Todios	12.192	0.1270	665.4	7.8.7	ε	€	Ξ	n/a	€	Ξ	9	n/a
from the property of the prope	11.92	6.7100	302.6	1.5	n/a	n/a	n/a	n/a	n/a	ν'n	n/a	2/4
Averaging Period: Three hours												
Turbine 1	27.43	4.1500	695.7	20.8	n/a	0.078	n/a	n/a	7/3	0.62	n/a	2/3
Turbine 2	27.43	4.1500	695.7	20.8	n/a	0.078	r/a	n/a	n/a	0.62	r/a	r/a
Turbine 3	27.43	4.1500	695.7	20.8	n/a	0.078	n/a	n/a	n/a	0.62	r/a	1/3
Turbine 4	27.43	4.1500	695.7	20.8	n/a	0.078	e/u	n/a	ה/ח	0.62	n/a	n/a
Turbine 5	27.43	4,1500	695.7	20.8	ה/יו	0.078	n/a	n/a	n'a	0.62	ה/ח	n/a
Em Generator	12,192	0.2030	698.2	2000	n/a	0.00126	n/a	n/a	n/a	0.0100	n/a	n/a
Fire Pump	12,192	0.1270	665.4	76.7	n/a	€	n/a	n/a	n/a	ε	n/a	n/a
Cooling Tower (each cell)	11.92	6.7100	302.6	11.5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2,4
Averaging Period: Eight hours												
Turbine 1	27.43	4.1500	678.5	32.4	n/a	o.	2.423	n/a	n/a	n/a	19.23	n/a
Turbine 2	27.43	4.1500	678.5	32.4	n/a	n/a	2.423	n/a	n/a	n/a	19.23	n/a
Turbine 3	27.43	4.1500	678.5	32.4	n/a	n/a	2.423	n/a	n/a	n/a	19.23	n/a
Turbino 4	27.43	4 1500	678.5	32.4	n/a	n/a	2.423	n/a	n/a	n/a	19.23	n/a
Turbino 5	27.43	4.1500	678.5	32.4	n/a	n/a	2.423	n/a	n/a	n/a	19.23	n/a
Em Generator	12.192	0.2030	698.2	200.0	r/a	n/a	7.292E-02	n/a	n/a	n/a	0.58	n/a
Fre Pump	12.192	0.1270	665.4	76.7	n/a	n/a	Ξ	n/a	n/a	n/a	Ξ	n/a
Cooling Tower (aach cell) Averaging Period: 24 hours	11.92	6.7100	302.6	11.5	n/a	n/a	n/a	n/a	n/a	S <sub>S</sub>	n/a	e/u
Turbine 1	27.43	4.1500	697.7	30.8	n/a	0.078	n/a	0.756	rva	0.62	n/a	9
Turbine 2	27.43	4.1500	697.7	30.8	n/a	0.078	n/a	0.756	n/a	0.62	n/a	9
Turbine 3	27.43	4.1500	697.7	30.8	n/a	0.078	n/a	0.756	n/a	0.62	n/a	9
Turbine 4	27.43	4.1500	697.7	30.8	n/a	0.078	n/a	0.756	n/a	0.62	n/a	ω
Turbine 5	27.43	4.1500	27.2	30.8	n/a	0.078	n/a	0.756	n/a	0.62	n/a	ω .
Em Generalor	12 192	0.1970	2.560	76.7	Ly o	1.5/55-04	Na o/e	2.030E-03	ev o	1.2502-03	e s	2.0926-02
Cooling Tower (each cell)	11.92	6.7100	302.6	11.5	n/a	r√a Na	n/a	1.119E-02	2	e v	r/a	0.0888
Averaging Period: Annual												
Turbine 1	27.43	4.1500	689.6	32.1	0.604	0.043	n/a	0.417	4.7945	0.3425	n/a	3.3105
Turbine 2	27.43	4,1500	689.6	32.1	0.604	0.043	n/a	0.417	4.7945	0.3425	n/a	3.3105
Turbino 3	27.43	4.1500	9.689	32.1	0.604	0.043	n/a	0.417	4,7945	0.3425	r/a	3,3105
Turbina 4	27.43	4,1500	689.8	32.1	0.604	0.043	n/a	0.417	4.7945	0.3425	n/a	3.3105
Turbine 5	27.43	4,1500	689.6	32.1	0.604	0.043	n/a	0.417	4.7945	0.3425	n/a	3.3105
Em Generalor	12.192	0.2030	698.2	200.0	2.395E-02	2.520E-05	n/a	3.780E-04	1.90E-01	2.00E-04	n/a	3 00E-03
Fire Pump	12.192	0.1270	685.4	78.7	2.570E-03	2.991E-06	n/a	5.040E-05	2.04E-02	2.37E-05	n/a	4.00E-04

Note 1. Emorgoncy generalor and the pump will not operate during the same 24-hour period.

Higher concentration from screening assessement used for each politicant and averaging period.

Item	Structure/Building Name and Description	Structure Plan	Structure
No.		Dimensions, feet	Height, feet
1	Administration & Control Building with insulated standing seam metal roof with slope 1/2" per foot.	80' x 40'	21' eave
2	Maintenance/Warehouse Building with insulated standing seam metal roof with slope 1/2" per foot.	100' x 40'	21' eave
3	Compressor Building with insulated standing seam metal roof with slope 1/2" per foot.	90' x 60'	21' eave
4	Water Treatment Building with insulated standing seam metal roof with slope 1/2" per foot. (HOLD - THIS BUILDING MAY BE DELETED AND REPLACED WITH PAD AND SHED COVER.)	80' x 40'	21' eave
5	Cooling Tower Chemical Building with standing seam metal roof with slope 1/2" per foot.	35′ x 22′	18' eave
6	Combustion Turbine (CT) - Inlet Air Filter. Highest part of CT	30' wide x 22' deep	48′
7	Exhaust Duct (up to Stack)	23' wide x 25' long on top, then tapers down toward the CTG exhaust.	38′
8	Exhaust Stack	13′ – 6″ ID	90′
9	Combustion Turbine VBV Silencer Stack	10' - 9" OD	68'
10	Cooling Tower	37' wide x 211' long	39' to top of stack, 27' fan deck
11	Demineralized Water Storage Tank, 100,000 gallon capacity	28' diameter	24' straight side height with a domed roof
12	Recycled Water Storage Tank, 150,000 gallon capacity. NOTE: WALNUT SITE, ONLY, WILL HAVE 2 OF THESE TANKS.	31' diameter	28' straight side height with a cone roof
13	Treated Water Storage Tank, 100,000 gallon capacity	28' diameter	24' straight side height with a domed roof

# **Table 8.1B-4 (7 Pages)**

	Base Elevation	vation	UTM-X	UTM-Y	Hei	Height	Diameter		Flowrate	Stack V	Stack Velocity	Stack Temperature	erature
Stack Type	(ft)	(m)	(m)	(m)	(tt)	(m)	(ft)	(m)	(acfm)	(tt/sec)	(s/m)	(F)	(K)
Turbine Stacks													
Turb1	1460	445.0	485812.71	3732662.88	90	27.43	13.5	4.15	variable	31		variable	1
Turb2	1460	445.0	485756.01	3732662.88	90	27.43	13.5	4.15	variable		ı	variable	1
Turb3	1460	445.0	485700.08	3732662.88	06	27.43	13.5	4.15	variable			variable	ĭ
Turb4	1460	445.0	485643.76	3732662.88	90	27.43	13.5	4.15	variable	ı	į.	variable	ı
Turb5	1460	445.0	485587.44	3732662.88	06	27.43	13.5	4.15	variable		i	variable	r
Cooling Tower Cells								1					
CT Cell1	1460	445.0	485514.04	3732633.43	39	11.89	22	6.71	Fé	9.59	20.0	85	302.6
CT_Cell2	1460	445.0	485514.04	3732646.27	39	11.89	22	6.71	t/i	9.59	20.0	82	302.6
CT_Cell3	1460	445.0	485514.04	3732659.12	39	11.89	22	6.71	0	9.59	20.0	85	302.6
CT_Cell4	1460	445.0	485514.04	3732671.96	39	11.89	22	6.71	E	9:59	20.0	85	302.6
CT_Cell5	1460	445.0	485514.04	3732684.81	39	11.89	22	6.71	516	9:59	20.0	85	302.6
Diesel Fire Pump Engine(300 hp)	1460	445.0	485595.73	3732710.29	40	12.19	12.19 0.4167	0.1270	2,058	251.6	7.97	738	665.4
Diesel Generator (1750 kW)	1460	445.0	485578.28	3732710.29	9	12.19	12.19 0.6667	0.2032	13,843	0.199	201.5	797	698.2

### Sun Valley Energy Park Buildings & Structures

	Drawing	UTM-X	UTM-Y	He	ight
Building/Structure	Ref. No.	(m)	(m)	(ft)	(m)
200 Maria (2014 - 2014	, , , , , , , , , , , , , , , , , , ,				5-950-5390
Water Treatment/Chemical Bldg	32	485655.98	3732722.23	21	6.40
	I	485631.59	3732722.23		
		485631.59	3732710.03		
		485655.98	3732710.03		
		485655.98	3732722.23		
Maintenance/Wharehouse Combined	31 & 46	485730.80	3732713.24	21	6.40
		485700.32	3732713.24		
		485700.32	3732725.43		
		485730.80	3732725.43		
		485730.80	3732713.24		
Admin/Control Bldg	47	485691.59	3732725.07	21	6.40
_		485667.21	3732725.07		
		485667.21	3732712.88		
		485691.59	3732712.88		
	1	485691.59	3732725.07		
Gas Compressor/Electrical Bldg	37	485569.96	3732728.99	21	6.40
The estimate a destruction of the contract of the estimate of the contract of	Andrea	485542.53	3732728.99		
		485542.53	3732710.70		
		485569.96	3732710.70		
		485569.96	3732728.99		
Cooling Tower Chemical Bldg	38	485531.86	3732652.53	18	5.49
	120,000	485531.86	3732658.63		
		485527.28	3732658.63		
	,	485527.28	3732652.53		
		485531.86	3732652.53		
Cooling Tower - Overall Structure	29	485520.45	3732627.01	27	8.23
	1	485507.64	3732627.01		
		485507.64	3732691.23		
		485520.45	3732691.23		
		485520.45	3732627.01		
Air Intake for Turbine #1		485796.15	3732688.85	48	14.63
		485796.15	3732684.55		10.000
		485786.98	3732684.55		
		485786.98	3732688.85		
	2	485796.15	3732688.85		
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- 1		

SCR for Turbine #1	485810.23	3732659.38	38	11.58
	485802.58	3732659.41		11.00
	485794.32	3732660.52		
	485794.32	3732663.39		
	485802.58	3732666.39		
	485810.23	3732666.39		
1	485812.57	3732665.09		
	485812.57	3732660.68		
	485810.23	3732659.38		
Air Intake for Turbine #2	485739.44	3732684.55	48	14.63
	485730.28	3732684.55		
	485730.28	3732688.85		
	485739.44	3732688.85		
	485739.44	3732684.55		
SCR for Turbine #2	485753.50	3732659.32	38	11.58
	485745.88	3732659.32		
	485737.62	3732660.52		
	485737.62	3732663.41		
	485745.88	3732666.39		
	485753.50	3732666.39		
	485755.92	3732665.06		
	485755.92	3732660.68		
	485753.50	3732659.32		
Air Intake for Turbine #3	485683.51	3732684.55	48	14.63
1	485674.35	3732684.55		
	485674.35	3732688.85		
	485683.51	3732688.85		
	485683.51	3732684.55		
SCR for Turbine #3	485697.58	3732659.38	38	11.58
	485689.95	3732659.38		1
	485681.66	3732660.52		1 1
	485681.66	3732663.44		1 1
	485689.95	3732666.39	1	1
	485697.58	3732666.39		1
	485699.91	3732665.09		
	485699.91	3732660.71		
	485697.58	3732659.38		
Air Intake for Turbine #4	485627.19	3732684.55	48	14.63
	485618.03	3732684.55		
	485618.03	3732688.85		
	485627.19	3732688.85		
	485627.19	3732684.55	12.545	\$15 S254
SCR for Turbine #4	5 50 980	12 Late 2000 2000	38	11.58
	485641.28	3732659.38		
	485633.63	3732659.38	i.	1 1

p)	100	W- mace		40
	485625.34	3732660.55		
	485625.34	3732663.49		
	485633.66	3732666.39		
	485641.28	3732666.39		
	485643.70	3732665.09		
	485643.70	3732660.71		
	485641.28	3732659.38		
Air Intake for Turbine #5	485570.87	3732684.55	48	14.63
All Illake for Turonic #5	485561.71	3732684.55	70	14.05
	485561.71	3732688.85		
	485570.87	3732688.85		
	485570.87	3732684.55		
SCR for Turbine #5	485584.93	3732659.35	38	11.58
BOX for Faronic #5	485577.30	3732659.35	50	11.50
	485569.04	3732660.55		
	485569.04	3732663.47		
	485577.30	3732666.39		
	485584.93	3732666.39		
	485587.32	3732665.06		
_	485587.32	3732660.68		
	485584.93	3732659.35		

### Sun Valley Energy Park Storage Tank Information

		Tank	Center		dinates		\		
	Drawing	UTM-X	UTM-Y	UTM-X	UTM-Y		ight		neter
Tank Type	Ref. No.	(m)	(m)	(m)	(m)	(ft)	(m)	(ft)	(m)
		102622.02		405635.00	.==			20	0.50
Freated Water Tank	34	485637.02	3732730.67	485637.02	3732734.94	24	7.32	28	8.53
	1			485636.19	3732734.85				
			l i	485635.39	3732734.61				
			l i	485634.65	3732734.22				
			1	485634.00	3732733.69				
	9			485633.47	3732733.04				1
			1	485633.08	3732732.30				
				485632.84	3732731.50				
				485632.76	3732730.67				
				485632.84	3732729.84				
				485633.08	3732729.04		1 1		
				485633.47	3732728.30				
				485634.00	3732727.65				
				485634.65	3732727.12				
				485635.39	3732726.73				
				485636.19	3732726.49				
				485637.02	3732726.41				
				485637.85	3732726.49				
				485638.65	3732726.73				
				485639.39	3732727.12				
				485640.04	3732727.65				
			1	485640.57	3732728.30				
			1 1	485640.96	3732729.04				
				485641.20	3732729.84				in the second
			1	485641.29	3732730.67				
			1	485641.20	3732731.50				8
			1 1	485640.96	3732732.30				
			1 1	485640.57	3732733.04				
				485640.04	3732733.69		1		
				485639.39	3732734.22				
				485638.65	3732734.61				
				485637.85	3732734.85				
Recycled Water Tank	30	485620.21	3732713.20	485620.21	3732719.30	28	8.53	40	12.19
	105000			485619.02	3732719.18	800	0000000	V0754	terminete
				485617.88	3732718.83				
				485616.82	3732718.27				
				485615.90	3732717.51				
				485615.14	3732716.59				
				485614.58	3732715.53				
	-		-	485614.23	3732714.39				
				485614.12	3732713.20		l -		
				485614.23	3732712.01				
		6	1	485614.58	3732710.87			7	
				485615.14	3732709.81		1		
				485615.90	3732708.89				
		7		485616.82	3732708.13				
				485617.88	3732707.57				
	(-			485619.02	3732707.22				
				485620.21	3732707.11	) i			
				485621.40	3732707.22				
		5		485622.54	3732707.57				
				485623.60	3732708.13	/			
				485624.52	3732708.89				
				485625.28	3732709.81				
	ı		1 1	485625.84	3732710.87	I	1	I	1

Demineralized Water Tank	36	485650.18	3732730.67	485626.19 485626.19 485625.84 485625.28 485625.28 485624.52 485623.60 485622.54 485621.40 485650.18 485649.35	3732712.01 3732713.20 3732714.39 3732715.53 3732716.59 3732717.51 3732718.27 3732718.83 3732719.18	24	7.32	28	8.53
				485648.55 485647.81 485647.16 485646.63 485646.24 485646.00 485645.92 485646.00 485645.92 485646.63 485647.16 485647.81 485647.81 485649.35 485650.18 485651.01 485651.81 485653.20 485653.73 485654.45 485654.36 485654.12 485654.36 485654.12 485653.73 485654.12 485653.73 485654.12 485653.73 485655.81 485653.73	3732734.61 3732734.22 3732733.69 3732733.04 3732732.30 3732731.50 3732730.67 3732729.84 3732729.04 3732727.65 3732727.12 3732726.49 3732726.49 3732726.49 3732726.49 3732726.49 3732726.5 3732726.49 3732726.5 3732727.12 3732727.65 3732727.12 3732727.12 3732727.65 3732727.12 3732727.65 3732727.12 3732727.65 3732727.65 3732727.65 3732727.65 3732727.65 3732727.65 3732727.65 3732727.65 3732727.65 3732727.65 3732727.65 3732727.65 3732727.65 3732727.65 3732727.65				
Recycled Chlorination Tank	26	485620.07	3732729.53	485620.07 485619.06 485618.09 485617.19 485616.41 485615.76 485615.28 485614.99 485614.89 485615.28 485615.76 485615.76 485615.76 485616.41 485617.19 485618.09 485620.07 485621.08 485622.05 485622.95 485623.73	3732734.71 3732734.61 3732734.32 3732733.84 3732733.19 3732731.51 3732730.54 3732729.53 3732729.53 3732726.65 3732725.87 3732725.87 3732724.45 3732724.45 3732724.45 3732724.45 3732724.45 3732724.45 3732724.45	24	7.32	34	10.36

				485624.38 485624.86 485625.15 485625.25 485625.15 485624.86 485624.38 485623.73 485622.95 485622.05 485621.08	3732726.65 3732727.55 3732728.52 3732729.53 3732730.54 3732731.51 3732732.41 3732733.19 3732733.84 3732734.32 3732734.61				
Fire Water Tank	35	485593.40	3732724.64	485593.40 485592.03 485590.72 485589.51 485588.44 485587.57 485586.92 485586.53 485586.53 485586.92 485587.57 485588.44 485599.72 485592.03 485592.03 485593.40 485594.77 485596.08 485597.30 485599.23 485599.88 485600.28 485599.23 485599.88 485599.23 485599.88 485599.30 485597.30 485598.36 485597.30 485598.36 485597.30 485598.36	3732731.65 3732731.52 3732731.12 3732730.47 3732729.60 3732728.54 3732727.32 3732726.01 3732724.64 3732723.27 3732721.96 3732720.75 3732718.81 3732718.16 3732717.77 3732717.63 3732717.77 3732718.16 3732717.77 3732718.16 3732717.77 3732718.16 3732717.77 3732718.16 3732717.77 3732718.16 3732717.77 3732718.16 3732717.77 3732718.16 3732718.81 3732719.68 3732720.75 3732721.96 3732720.75 3732721.96 3732723.27 3732724.64 3732726.01 3732727.32 3732728.54 3732729.60 3732730.47 3732731.12 3732731.12	24	7.32	46	14.02



# ARB Almanac 2005 - Appendix A: County Level Emissions and Air Quality by Air Basin

# South Coast Air Basin

### County: Riverside

OZONE (ppm)	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Peak 1-Hour Indicator	0.333	0.332	0.308	0.297	0.276	0.269	0.263	0.261	0.251	0.240	0.222	0.207	0.192	0.188	0.188	0.176	0.171	0.154	0.154	0.158
Peak 8-Hour Indicator	0.228	0.228	0.207	0.209	0.205	0.205	0.198	0.196	0.194	0.189	0.170	0.162	0.151	0.146	0.150	0.143	0.141	0.130	0.125	0.131
4th High 1-Hr. in 3 Yrs	0.330	0.330	0.320	0.290	0.270	0.270	0.270	0.270	0.250	0.240	0.240	0.220	0.200	0.187	0.187	0.170	0.166	0.149	0.149	0.157
Avg. of 4th High 8-Hr. in 3 Yrs	0.201	0.209	0.197	0.191	0.180	0.180	0.177	0.175	0.169	0.165	0.157	0.149	0.140	0.135	0.129	0.124	0.114	0.111	0.113	0.118
Maximum 1-Hr. Concentration	0.320	0.350	0.270	0.290	0.280	0.270	0.290	0.240	0.260	0.260	0,253	0.213	0.203	0.187	0.195	0.144	0.164	0.152	0.160	0.169
Max. 8-Hr. Concentration	0.202	0.23	0.217	0.186	0.241	0.213	0.181	0.196	0.193	0.195	0.208	0.161	0.162	0.148	0.169	0.123	0.126	0.135	0.130	0.146
Days Above State Standard	182	177	174	175	191	182	150	155	159	157	144	134	107	128	80	83	93	97	93	102
Days Above Nat. 1-Hr. Std.	132	132	118	125	133	119	97	66	66	86	8	69	20	4	4	6	23	28	22	37
Days Above Nat. 8-Hr. Std.	156	159	146	151	152	148	122	132	135	124	127	66	28	106	65	99	- 20	-73	29	85
PM10 (ug/m3)	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Max. 24-Hr. Concentration (State)					252	252	250	179	126	231	161	219	162	163	116	153	139	219	130	164
Max. 24-Hr. Concentration (Nat)					252	252	250	179	126	231	161	219	162	163	116	153	139	219	130	164
Annual Average (State)						94.0	78.2	0.97	62.0	72.5	65.5	68.8	61.5	65.3		72.2	60.1	67.9	58.4	56.9
Annual Average (Nat)					94.5	93.0	78.2	76.1	62.6	72.5	65.5	68.8	62.8	65.6	46.2	72.2	59.1	63.3	58.1	55.6
Calc Days Above State 24-Hr Std						305	275	250	233	251	244	226	251	257		261	248	240	251	211
Calc Days Above Nat 24-Hr Std					30	34	18	12	0	48	9	22	9	9	0	0	0	9	0	9
PM2.5 (ug/m3)	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Max. 24-Hr. Concentration (State)			55,000		il in			71				1			T	111.2	119.6	98.0	9.77	104.3
Max. 24-Hr. Concentration (Nat)											The second					111.2	119.6	98.0	77.6	104.3
98th Percentile of 24-Hr Conc.			THE REAL PROPERTY.													75.4	77.1	74.3	66.3	76.6
Annual Average (State)																				24.8
Avg. of Qtrly. Means (Nat)								6				(3.6) (3.6)				31.0	28.3	30.9	27.4	24.8
CARBON MONOXIDE (ppm)	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Peak 8-Hr. Indicator	8.3	7.9	8.4	8.7	8.7	8.5	8.1	8.0	6.9	9.9	6.3	6.2	6.2	5.9	5.3	4.7	4.7	4.4	4.7	3.9
Max. 1-Hr. Concentration	16.0	14.0	18.0	13.0	17.0	14.0	15.0	14.0	11.0	10.0	11.0	9.0	9.1	10.7	6.4	7.4	8.8	5.8	6.5	4.6
Max. 8-Hr. Concentration	8.9	9.1	8.3	9.7	10.0	10.3	7.3	7.4	6.1	7.1	7.3	6.3	5.3	9.6	4.8	4.4	4.2	4.5	3.8	3.7
Days Above State 8-Hr. Std.	0	-	0	0	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Days Above Nat. 8-Hr. Std.	0	0	0	0	·	T	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NITROGEN DIOXIDE (ppm)	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996		1998	1999	2000	2001	2002	2003
Peak 1-Hr. Indicator	0.161	0.162	0.160	0.163	0.170	0.176	0.174	0.172	0.168	0.159	0.138	0.134	0.133	ten.					0.200	0.161
Max. 1-Hr. Concentration	0.170	0.160	0.160	0.210	0.190	0.160	0.160	0.210	0.230	0.140	0.181	0.147	0.110						0.149	0.099
Max. Annual Average	0.035	0.035	0.032	0.027	e i	0.036	0.034	0,035	0.030		0.031	0.030	0.029	0.026					0.017	0.021
SULFUR DIOXIDE (ppm)	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Peak 1-Hr. Indicator	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.02
Max. Annual Average	0.00	00.00	00.0	0.00	0.00	0.00	0.00	00.0	0.00	0.00	0.00	0.00	000	0.00	0.00	0.00	0.00	00.0	00'0	0.00
Max. 24-Hr. Concentration	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.04	0,01	00:0	0.01

### **Table 8.1B-6**

# South Coast Air Basin

County: San Bernardino

OZONE (ppm)	1984	1985	200	100	200	200			400		-	000	222			000.			-	
Peak 1-Hour Indicator	0.328	0.330	0,321	0.304	0.284	0,277	0.273	0.265	0.266	0.252	0.252	0.232	0.233	0.222	0.224	0.211	0.213	0.172	0.172	0.178
Peak 8-Hour Indicator	0.232	0.232	0.238	0.227	0.211	0.204	0.202	0.198	0.200	0.200	0.187	0.186	0.175	0.168	0.182	0.179	0.178	0.144	0.144	0.144
4th High 1-Hr. in 3 Yrs	0.320	0.320	0,320	0.320	0.290	0.280	0.280	0.270	0,270	0.250	0.250	0.234	0.231	0.215	0.217	0.211	0.211	0,170	0.169	0.167
Avg. of 4th High 8-Hr. in 3 Yrs	0.210	0.211	0.211	0.200	0.195	0.188	0.185	0.182	0.180	0.177	0.171	0.165	0.161	0.148	0.154	0.147	0.146	0.129	0.128	0.131
Maximum 1-Hr. Concentration	0.340	0.340	0,310	0.290	0,350	0.320	0.330	0.290	0.280	0.270	0.265	0.256	0.239	0.205	0.244	0.174	0.184	0.184	0.161	0.176
Max. 8-Hr. Concentration	0.248	0.252	0.240	0.198	0.250	0.252	0.193	0.203	0.211	0.185	0.192	0.203	0.173	0.143	0.206	0.142	0.149	0.144	0.139	0.153
Days Above State Standard	197	184	179	179	193	192	161	160	176	170	158	135	132	122	8	88	ᅙ	66	94	106
Days Above Nat. 1-Hr. Std.	162	138	145	141	153	143	115	109	123	112	115	9	79	23	28	37	25	32	30	20
Days Above Nat. 8-Hr. Std.	178	166	167	163	174	169	145	143	164	157	142	110	110	93	88	87	75	79	82	98
PM10 (ug/m3)	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Max. 24-Hr. Concentration (State)					287	27.1	475	163	649	143	147	178	136	208	114	183	124	166	102	149
Max. 24-Hr. Concentration (Nat)					289	271	475	163	649	143	147	178	136	208	114	183	124	166	102	149
Annual Average (State)						79.7	77.3	68.5	79.0	58.2	0.09	8.09	54.9	53.6	50.2	60.1	52.6	52.4	50.1	44.8
Annual Average (Nat)					81.3	79.7	77.3	68.5	79.0	58.3	59.9	8.09	54.9	53.6	50.2	65.8	52.6	52.2	50.1	44.9
Calc Days Above State 24-Hr Std				STATE OF		293	265	250	243	231	232	209	211	174	171	223	195	208	201	139
Calc Days Above Nat 24-Hr Std					19	18	19	<b>9</b>	12	0	0	77	0	9	0	9	0	9	0	0
PMz.s (ug/m3)	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Max, 24-Hr. Concentration (State)											7.2	1000		E-MARK T		121.4	83.8	78.5	82.1	98.1
Max. 24-Hr. Concentration (Nat)																121.4	89.8	78.5	82.1	98.1
98th Percentile of 24-Hr Conc.					E STATE			3880				100				85.6	70.3	69.5	66.3	6.99
Annual Average (State)																		25.0	25.8	23.8
Avg. of Qtrly. Means (Nat)	細	201 201 270	起源	が最近								42) 984 944				25.7	25.9	26.5	25.8	23.8
CARBON MONOXIDE (ppm)	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Peak 8-Hr. Indicator	6.2	5.8	7.2	7.1	7.5	7.8	7.7	7.4	6.7	6.0	5.5	6.4	6.3	6.1	5.1	4.9	4.9	4.1	3.5	3.6
Max. 1-Hr. Concentration	9.0	10.0	9.0	11.0	9.0	11.0	9.0	8.0	7.0	7.0	7.6	7.7	5.8	9.7	6.3	5.5	4.8	4.1	4.5	5.1
Max. 8-Hr. Concentration	5.6	6.3	6.7	6,7	9.7	8.1	9.9	7.0	5.9	6.0	6.4	6.3	4.5	5.9	4.7	4.1	4.1	3.3	3.2	4.5
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Days Above Nat. 8-Hr. Std.	0	0	0	0	0	0	0	0	0	0	•	0	0	0	0	0	•	0	0	0
NITROGEN DIOXIDE (ppm)	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000		2002	2003
Peak 1-Hr. Indicator	0.180	0.171	0.172	0.183	0.193	0.195	0.192	0.187	0.174	0.167	0.160	0.178	0.180	0.178	0.143		0.137	0.131	0.123	0.125
Max. 1-Hr. Concentration	0.200	0.180	0.240	0.200	0.210	0.200	0.200	0.210	0.140	0.160	0.177	0.199	0.163	0.153	0.154		0.143		0.122	0.117
Max. Annual Average	0.040	0.040	0.042	0.047	0.047	0.045	0.041	0.043	0.040	0.042	0.041	0.046	0.038	0.036	0.036	300	0.038		0.036	0.034
SULFUR DIOXIDE (ppm)	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Peak 1-Hr. Indicator	0.05	0.04	0.05	0.05	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02
Max. Annual Average	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.0
May 24-Hr Concentration		5	2	000			The Part of the Pa							000	700	300			,	000

Table A-98
ARB Almanac 2005 – Appendix A: County Level Emissions and Air Quality by Air Basin

A portion of San Bernardino County lies within the Mojave Desert Air Basin. 383

# South Coast Air Basin

County: Orange

0.246 0.235 0.227 0.219 0.205 0.163 0.246 0.240 0.240 0.240 0.240 0.240 0.240 0.240 0.240 0.240 0.240 0.240 0.240 0.240 0.240 0.240 0.240 0.250 0.210 0.290 0.141 0.138 0.127 0.120 0.195 0.167 0.145 0.145 0.158 96 81 80 81	0.267 0.246 0.174 0.163 0.260 0.240 0.250 0.240 0.250 0.240 0.250 0.240 0.165 0.195 0.165 0.195 0.165 0.198 0.1987 1988 0.1987 1988 0.1987 1988 0.1987 1988 0.109 0.106 0.106 0.106 0.106 0.106 0.107		0.219 0.145 0.220 0.220 0.250 0.127 0.250 145 145 146 146 146 146 45.5 45.5 89 0	0.0000	0.197 0 0.133 0 0.190 0 0.114 0 0.190 0 0.190 0 172 0 175 1 115 1 115 38.3 38.3 38.3 38.3 38.3 38.3 38.3 38.	0.189 C 0.134 C 0.130 0 0.172 0 0.172 0 15 46 9 15 106 106 106 106 106 106 106 106 106 106	0.163 0.170 0.170 0.109 0.109 1995 172 172 172 172 172 172 172 172 172 172	0.156 0.112 0.156 0.150 0.150 0.150 1.101 1.01 1.01 35.2 35.2 37 0.00	0.137 0.138 0.088 0.134 0.100 13 3	0.141 0.101 0.144 0.088 0.182	0.131 0.094 0.130 0.084 0.116	0.131 0.095 0.127 0.084	0.113 0.094 0.114 0.080	0.091	0.124
0.196 0.195 0.180 0.174 0.163 0.159 0.154 0.145 0.139  3 Yrs	0.174 0.163 0.260 0.240 0.152 0.142 0.290 0.290 0.165 0.195 0.195 0.195 0.195 0.198 0.1987 0.1987 0.1987 0.1987 0.109 0.106 0.106 0.120		0.145 0.220 0.220 0.127 0.145 0.145 71 32 36 1991 146 146 146 45,5 45,5 45,5 45,9 89 0					0.112 0.156 0.100 0.150 0.150 0.103 1.01 1.01 1.01 3.5.2 3.5.2 3.5.2	0.101 0.138 0.088 0.134 0.100 3	0.101 0.144 0.088 0.182	0.094 0.130 0.084 0.116	(E)	0.094 0.114 0.080	0.091	960 0
3 Yrs	0.260 0.240 0.152 0.142 0.240 0.290 0.165 0.195 0 81 96 42 45 54 50 1987 1988 1132 0 1987 1988 1132 1132 1132 1132 1132 1132 1132 11		0.220 0.127 0.250 0.145 71 32 36 1991 146 45.5 45.9 89 0					0.156 0.100 0.150 0.103 0.103 6 9 9 9 101 101 101 0 35.2 35.2 35.2	0.138 0.088 0.100 0.100 0.134	0.144	0.130 0.084 0.116	<b>33</b>	0.114	0.119	2000
3 Yrs	0.152 0.142 0.240 0.290 0.165 0.195 0.195 0.195 0.195 0.195 0.195 0.195 0.195 0.198 0.1987 0.1987 0.1987 0.109 0.106 0.100		0.127 0.250 0.145 71 32 36 1991 146 146 45.5 45.9 89 0					0.100 0.150 0.103 27 27 6 9 9 101 101 101 35.2 35.2 35.2	0.088 0.134 0.100 13 3	0.088	0.084		0.080		0.131
ation 0.320 0.340 0.250 0.240 0.290 0.260 0.210 0.250 0.220 0.220 0.316 0.158 0.165 0.195 0.167 0.142 0.145 0.158 0.167 0.142 0.145 0.158 0.167 0.142 0.145 0.158 0.167 0.142 0.145 0.158 0.167 0.142 0.145 0.158 0.167 0.142 0.145 0.158 0.167 0.142 0.145 0.158 0.167 0.142 0.145 0.145 0.158 0.167 0.142 0.145	0.240 0.290 (0.165 0.195 (9.19		0.250 0.145 71 32 36 1991 146 146 45.5 45.9 89 0					0.150 0.103 27 27 6 9 6 9 101 101 101 35.2 35.2 35.2	0.134 0.100 3 3	0.182	0.116	100000		0.080	0.086
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Table A-96 ARB Almanac 2005 – Appendix A: County Level Emissions and Air Quality by Air Basin



### **Table 8.1B-8**

### SCAQMD AIR QUALITY SIGNIFICANCE THRESHOLDS

	Mass Daily Thresholds	
Pollutant	Construction	Operation
NOx	100 lbs/day	55 lbs/day
VOC	75 lbs/day	55 lbs/day
PM10	150 lbs/day	150 lbs/day
SOx	150 lbs/day	150 lbs/day
СО	550 lbs/day	550 lbs/day
Lead	3 lbs/day	3 lbs/day
Toxic	Air Contaminants (TACs) and Od	lor Thresholds
TACs (including carcinogens and non-carcinogens)	Hazard Index ≥ 1	Cancer Risk ≥ 10 in 1 million  1.0 (project increment)  ≥ 3.0 (facility-wide)
Odor	Project creates an odor nuisan	ce pursuant to SCAQMD Rule 402
A	mbient Air Quality for Criteria Po	ollutants <sup>a</sup>
NO2  1-hour average annual average	contributes to an exceedance of 0.25 p	project is significant if it causes or f the following attainment standards opm (state) opm (federal)
PM10 24-hour average annual geometric average annual arithmetic mean	2.5 μg/n 1.	nended for construction) b  n³ (operation)  0 µg/m³  0 µg/m³
Sulfate 24-hour average		ug/m³
CO  1-hour average 8-hour average	SCAQMD is in attainment; p contributes to an exceedance of 20 p	project is significant if it causes or f the following attainment standards pm (state) (state/federal)

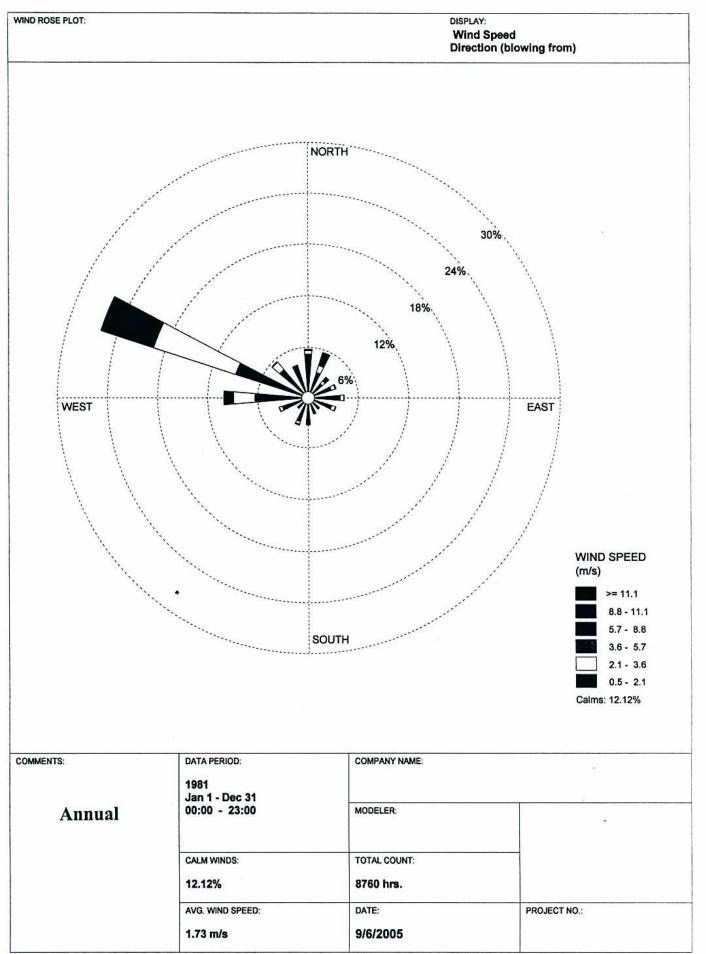
Ambient air quality thresholds for criteria pollutants based on SCAQMD Rule 1303, Table A-2 unless otherwise stated.
 Ambient air quality threshold based on SCAQMD Rule 403.

KEY: lbs/day = pounds per day ppm = parts per million ug/m³ = microgram per cubic meter ≥ greater than or equal to

	Statio	n ID & Name	UTM	(KM)	LAT/I	ONG
Surface	Upper Air	City Name	E-W	N-S	Longitude	Latitude
53071	91919	ANAHEIM	415.0	3742.5	117:55:07	33:49:16
54097	99999	AZUSA	414.9	3777.4	117:55:23	34:08:09
54144	99999	BANNING	510.5	3754.5	116:53:11	33:55:58
51100	99999	BURBANK (AMS)	379.5	3783.0	118:18:27	34:10:58
51067	99999	CANOGA PARK	352.9	3786.0	118:35:48	34:12:23
53112	91919	COMPTON AP	385.5	3750.3	118:14:17	33:53:19
53126	91919	COSTA MESA (AMS)	413.8	3724.2	117:55:47	33:39:21
52075	91919	DOWNTOWN LA	386.9	3770.1	118:13:31	34:04:02
53128	91919	EL TORO	436.0	3720.9	117:41:25	33:37:39
54149	99999	FONTANA	455.4	3773.9	117:29:01	34:06:24
54146	99999	INDIO	572.3	3731.0	116:13:11	33:43:06
53012	91919	KING HARBOR	371.2	3744.4	118:23:30	33:50:00
51108	99999	LA CANADA	388.2	3786.1	118:12:49	34:12:42
53099	91919	LA HABRA	412.0	3754.0	117:57:07	33:55:28
51117	99999	LANCASTER	396.0	3839.5	118:08:08	34:41:38
52118	91919	LENNOX (HAW)	373.0	3755.0	118:22:26	33:55:46
53101	91919	LONG BEACH (AMS)	390.0	3743.0	118:11:19	33:49:24
53127	91919	LOS ALAMITOS	404.5	3739.8	118:01:54	33:47:45
52130	91919	LYNWOOD	388.0	3754.0	118:12:42	33:55:20
52104	91919	MALIBU	344.0	3766.9	118:41:23	34:01:59
51115	99999	NEWHALL (AMS)	355.5	3805.5	118:31:02	34:22:59
54167	99999	NORCO	446.8	3749.0	117:34:31	33:52:54
54145	99999	PALM SPRINGS	542.5	3742.5	116:32:27	33:49:25
51122	99999	PASADENA (AMS)	396.0	3778.5	118:07:41	34:08:38
53134	91919	PICO RIVERA	402.3	3764.1	118:03:29	34:00:53
54109	99999	POMONA	430.8	3769.6	117:44:60	34:03:60
54161	99999	REDLANDS	486.2	3769.4	117:09:00	34:04:00
51107	99999	RESEDA	359.0	3785.0	118:31:49	34:11:54
54139	99999	RIVERSIDE	464.8	3758.6	117:22:50	33:58:10
53137	91919	SANTA ANA CYN	431.0	3748.4	117:44:46	33:52:32
54147	99999	UPLAND	440.0	3773.1	117:39:02	34:05:55
52132	91919	VERNON	387.4	3762.5	118:13:10	33:59:55
54106	99999	WALNUT	420.0	3761.7	117:51:58	33:59:41
52158	91919	WEST LA	372.3	3768.6	118:23:01	34:03:08
53114	91919	WHITTIER (AMS)	405.3	3754.0	118:01:28	33:55:26

Surface Stations	Upper Air
51 BURBANK	91919 LAX (LOYOLA MARYMOUNT)
52 LAX	99999 ONTARIO (EL MONTE & ONTARIO)
53 LONG BEACH	
54 ONTARIO	

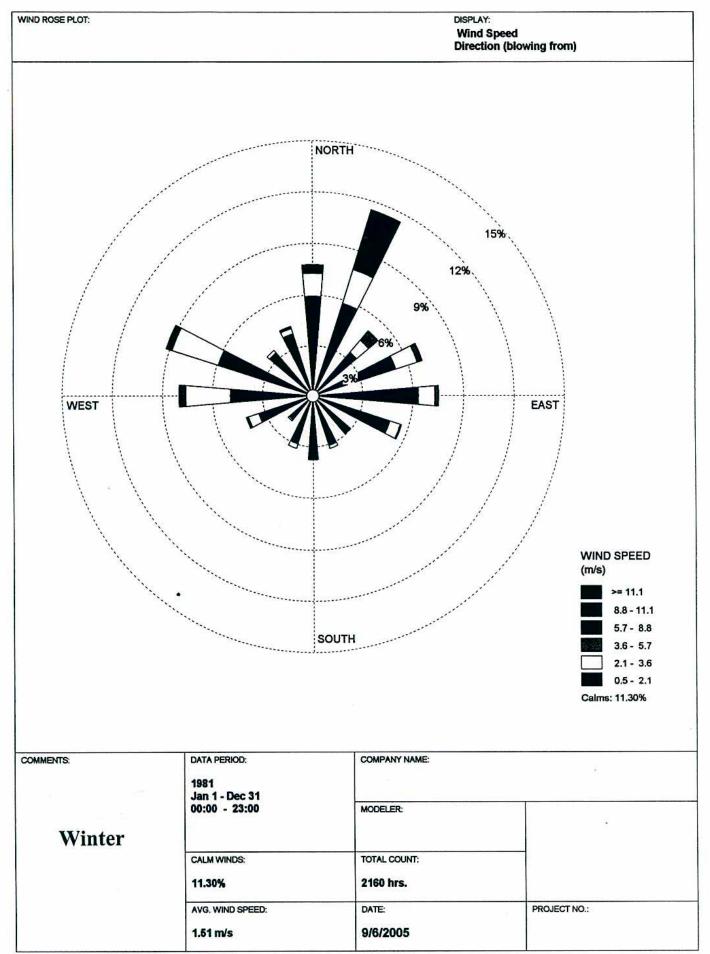
### Sun Valley Wind Rose Data (Riverside Met Station)



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		ممين	>= 11.1
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			3.6 - 5.7
			2.1 - 3.6
			0.5 - 2.1
			Calms: 12.73%
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	1981		_
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Summer			
	CALM WINDS:	TOTAL COUNT:	
	12.73%	2208 hrs.	
	12.10%	aavo III 3.	
ш	AVG. WIND SPEED:	DATE:	PROJECT NO.:
	1.97 m/s	9/6/2005	

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1	<u></u>		8.8 - 11.1
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	7777575744		2.1 - 3.6
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a annumation			4
-	1981		
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= -	00.00 - 25.00	MODELER.	4
Spring			
~F8			
	CALM WINDS:	TOTAL COUNT:	
	12.55%	2208 hrs.	
	AVG. WIND SPEED:	DATE:	PROJECT NO.:
	1.80 m/s	9/6/2005	



Climatic Data Summaries

(Sun City and San Jacinto)

Sun City, California Detailed Profile - travel and real estate info, jobs, hotels, hospitals, w... Page 1 of 1

### Average weather in Sun City, California

Based on data reported by over 4,000 weather stations

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average temp. (°F)	51.2	53.3	55.5	60.4	66.3	72.8	78.3	78.9	74.8	66.6	57.1	51.0
High temperature (°F)	66.2	68.4	69.7	76.7	82.7	91.6	97.8	98.1	92.6	84.2	74.2	67.5
Low temperature (°F)	36.2	38.3	41.2	44.1	49.8	53.9	58.8	59.8	56.9	49.0	40.1	34.5
Precipitation (in)	2.6	2.9	2.3	0.6	0.3	0.0	0.0	0.2	0.2	0.3	0.8	1.1

Back to the top

### Normal climate around Sun City, California

Based on data reported by main weather stations

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Days with precip.	6	5	5	3	1	0	0	0	1	2	3	5
Wind speed (mph)	5.4	6.1	6.9	7.5	7.3	7.2	7.0	6.8	6.4	5.8	5.3	5.1
Morning humidity (%)	75	77	79	79	80	81	82	82	82	80	78	76
Afternoon humidity (%)	54	55	56	53	57	58	56	56	56	56	55	54
Sunshine (%)	72	71	70	69	60	59	69	71	70	69	75	73
Days clear of clouds	12	10	11	12	10	12	17	18	15	13	13	13
Partly cloudy days	8	7	9	10	13	12	11	10	11	11	8	8
Cloudy days	11	11	11	8	9	7	3	2	4	7	8	10
Snowfall (in)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

### SAN JACINTO, CALIFORNIA (047810)

### Period of Record Monthly Climate Summary

Period of Record: 7/1/1948 to 5/31/1978

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average Max. Temperature (F)	65.2	67.6	69.4	75.0	82.0	91.1	99.6	99.4	94.4	84.8	74.1	66.9	80.8
Average Min. Temperature (F)	33.9	36.0	38.3	42.1	47.1	51.1	56.4	56.5	53.2	45.5	38.8	33.9	44.4
Average Total Precipitation (in.)	2.32	1.81	1.84	1.04	0.39	0.05	0.11	0.18	0.45	0.42	1.31	1.47	11.40
Average Total SnowFall (in.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
Average Snow Depth (in.)	0	0	0	0	0	0	0	0	0	0	0	0	0

Percent of possible observations for period of record.

Max. Temp.: 98.2% Min. Temp.: 98.2% Precipitation: 98.4% Snowfall: 98.4% Snow Depth: 98.3%

### SAN JACINTO, CALIFORNIA

### Period of Record General Climate Summary - Temperature

					Statio	n:(04	7810) SAN	JACINT	O				
					From	ı Yea	r=1948 To Y	ear=197	8				
	7//	Ionth verag	-		Daily E	xtrem		2000000000		Extreme	5977	Ma Ten	
	Max.	Min.	Mean	High	Date	Low	Date	Highest Mean	Year	Lowest Mean	Year	>= 90 F	<: 32
	F	F	F	F	dd/yyyy or yyyymmdd	F	dd/yyyy or yyyymmdd	F	-	F	-	# Days	# Da
January	65.2	33.9	49.6	89	17/1976	17	14/1963	53.5	76	44.5	55	0.0	(
February	67.6	36.0	51.8	95	03/1963	16	20/1953	59.4	63	46.2	56	0.1	(
March	69.4	38.3	53.8	94	04/1972	17	02/1971	61.5	72	48.1	54	0.3	(
April	75.0	42.1	58.6	104	03/1961	24	09/1953	64.1	59	50.6	67	3.2	[
May	82.0	47.1	64.5	109	21/1967	32	12/1953	68.2	73	58.7	53	8.3	
June	91.1	51.1	71.1	116	15/1961	31	02/1967	75.5	61	65.7	52	17.5	(
July	99.6	56.4	78.0	116	16/1960	41	15/1952	81.4	59	73.6	48	29.8	(
August	99.4	56.5	77.9	114	19/1950	37	27/1954	83.5	67	71.8	54	28.7	(
September	94.4	53.2	73.8	115	06/1955	36	13/1954	77.4	69	69.6	65	21.6	(
October	84.8	45.5	65.2	107	12/1950	24	30/1971	70.7	64	61.0	57	11.2	(
November	74.1	38.8	56.4	99	11/1963	19	17/1958	62.3	49	50.2	52	1.5	
December	66.9	33.9	50.4	90	03/1958	17	24/1953	56.1	77	45.7	71	0.0	(
Annual	80.8	44.4	62.6	116	19600716	16	19530220	64.0	77	60.1	52	122.4	(
Winter	66.6	34.6	50.6	95	19630203	16	19530220	54.0	63	47.6	52	0.1	(
Spring	75.4	42.5	59.0	109	19670521	17	19710302	63.3	72	55.6	53	11.9	(
Summer	96.7	54.6	75.7	116	19600716	31	19670602	78.5	61	70.9	54	76.1	(
Fall	84.4	45.9	65.1	115	19550906	19	19581117	68.4	67	62.0	57	34.3	(

Table updated on Jul 22, 2005

For monthly and annual means, thresholds, and sums:
Months with 5 or more missing days are not considered
Years with 1 or more missing months are not considered
Seasons are climatological not calendar seasons
Winter = Dec., Jan., and Feb. Spring = Mar., Apr., and May
Summer = Jun., Jul., and Aug. Fall = Sep., Oct., and Nov.

### SAN JACINTO, CALIFORNIA

### Period of Record General Climate Summary - Precipitation

				S	tation	:(047	/810) SAN J	ACIN	то					
				9	From	Year-	=1948 To Ye	ear=19	78					
8						Preci	pitation					Total	Snov	vfall
8	Mean	High	Year	Low	Year	11	Day Max.	>= 0.01 in.	>= 0.10 in.	>= 0.50 in.	>= 1.00 in.	Mean	High	Year
	in.	in.	-	in.	-	in.	dd/yyyy or yyyymmdd	# Days	# Days	# Days	# Days	in.	in.	-
January	2.32	8.41	78	0.00	72	1.99	25/1969	5	4	2	1	0.0	0.0	50
February	1.81	7.07	69	0.00	67	2.13	04/1958	5	4	1	0	0.0	0.0	49
March	1.84	7.32	78	0.00	56	2.00	01/1970	6	4	1	0	0.0	0.0	49
April	1.04	4.15	58	0.00	50	1.54	01/1958	4	2	1	0	0.0	0.0	49
May	0.39	3.28	77	0.00	52	1.52	08/1977	2	1	0	0	0.0	0.0	49
June	0.05	0.54	72	0.00	49	0.29	10/1976	1	0	0	0	0.0	0.0	49
July	0.11	0.58	65	0.00	48	0.49	24/1952	1	0	0	0	0.0	0.0	48
August	0.18	1.99	77	0.00	49	1.33	17/1977	1	1	0	0	0.0	0.0	49
September	0.45	4.23	76	0.00	49	1.74	10/1976	1	1	0	0	0.0	0.0	49
October	0.42	3.95	57	0.00	52	1.39	23/1976	2	1	0	0	0.0	0.0	49
November	1.31	7.10	65	0.00	56	2.11	23/1965	4	2	1	0	0.0	0.0	49
December	1.47	4.69	66	0.00	58	2.17	30/1951	4	3	1	0	0.2	3.0	67
Annual	11.40	19.15	52	4.64	61	2.17	19511230	37	23	8	2	0.2	3.0	67
Winter	5.60	16.25	78	0.96	61	2.17	19511230	15	11	4	1	0.2	3.0	68
Spring	3.28	10.31	58	0.17	72	2.00	19700301	12	7	2	1	0.0	0.0	49
Summer	0.33	2.04	77	0.00	49	1.33	19770817	2	1	0	0	0.0	0.0	49
Fall	2.19	7.40	65	0.16	77	2.11	19651123	7	4	1	1	0.0	0.0	49

Table updated on Jul 22, 2005

For monthly and annual means, thresholds, and sums:
Months with 5 or more missing days are not considered
Years with 1 or more missing months are not considered
Seasons are climatological not calendar seasons
Winter = Dec., Jan., and Feb. Spring = Mar., Apr., and May
Summer = Jun., Jul., and Aug. Fall = Sep., Oct., and Nov.

### SAN JACINTO, CALIFORNIA

### Period of Record Daily Climate Summary

Units: English (inches and degrees F)

Daily Records for station 047810 SAN JACINTO state: ca For temperature and precipitation, multi-day accumulations are not considered either for records or averages. The year given is the year of latest occurrence. Period requested -- Begin : 1/ 1/1890 -- End : used -- Begin: 7/1/1948 -- End: 5/31/1978 Period Cooling degree threshold = 65.00 Heating degree threshold = Multi-year unsmoothed average of the indicated quantity AVG Highest value of indicated quantity for this day of year HI Lowest value of indicated quantity for this day of year LO YR Latest year of occurrence of the extreme value NO Number of years with data for this day of year.

|---Maximum Temperature---|---Minimum Temperature---|----Precipitation---|----NO YR LO YR AVG NO HIGH YR AVG MO DY AVG NO YR LO YR AVG HI HI29 0.33 1974 0.00 64 28 1964 29 47 1962 20 1954 0.011 1 1 88 50 1960 30 80 1969 50 1974 29 47 1959 18 1976 0.030 29 0.41 1955 0.00 1 2 62 29 30 0.72 1977 29 82 1969 47 1974 30 47 1977 17 1970 0.068 29 0.00 1 62 28 29 82 1969 47 1974 29 29 46 1978 21 1971 0.091 1.44 1974 1 63 29 47 1978 20 1972 0.064 29 1.16 1978 0.00 28 84 1969 51 1974 30 1 5 64 28 29 1.20 1957 0.00 1 6 64 28 86 1969 46 1974 32 47 1959 20 1950 0.139 1 7 64 28 88 1962 46 1974 34 28 47 1978 20 1971 0.104 29 1.35 1974 0.00 29 49 1974 34 29 53 1953 23 1965 0.058 29 1.51 1974 0.00 64 85 1962 65 29 83 1962 49 1974 32 29 44 1953 22 1971 0.039 29 0.41 1978 0.00 1 9 29 1 10 29 79 1953 48 1955 35 29 48 1978 18 1954 0.151 1.51 1978 0.00 64 1 11 65 29 79 1961 48 1951 34 28 46 1978 22 1962 0.036 29 0.38 1970 0.00 29 48 1950 35 29 48 1970 20 1962 0.075 29 0.76 1960 0.00 1 12 64 79 1956 65 29 81 1975 50 1960 29 54 1957 20 1964 0.068 29 1.27 1957 1 13 29 51 1969 17 1963 0.121 29 1.40 1969 0.00 1 14 66 29 85 1975 45 1950 33 1 15 67 30 86 1976 48 1960 34 30 54 1969 22 1963 0.057 30 1.43 1978 0.00 86 1976 49 1955 35 30 51 1970 22 1964 0.113 30 1.63 1952 0.00 1 16 67 30 54 1978 36 30 53 1970 23 1963 0.043 30 0.58 1973 0.00 1 17 68 30 89 1976 30 1.28 1952 1 18 67 30 88 1971 48 1955 35 30 44 1954 23 1963 0.092 0.00 88 1971 1 19 30 45 1949 37 30 48 1951 25 1958 0.127 30 1.53 1954 0.00 66 1 20 81 1975 48 1954 37 30 50 1974 19 1963 0.085 30 0.59 1962 0.00 64 30 53 1969 0.66 1964 1 21 64 30 81 1975 48 1962 37 30 25 1958 0.070 30 0.00 30 0.00 1 22 64 30 80 1968 45 1949 30 50 1969 22 1966 0.055 0.68 1967 1 23 66 30 85 1951 47 1949 34 30 48 1956 25 1958 0.059 30 1.15 1967 0.00 1 24 30 86 1951 46 1949 35 30 49 1969 24 1966 0.051 30 0.63 1969 0.00 66 56 1969 1.99 1969 0.02 1 25 65 30 86 1951 45 1949 36 30 24 1966 0.125 30 30 1.75 1956 0.00 1 26 64 30 83 1971 49 1957 36 30 51 1969 21 1950 0.180 1 27 65 30 83 1976 45 1957 34 30 49 1956 22 1950 0.050 30 1.04 1956 0.00 85 1976 42 1957 49 1951 0.28 1968 0.00 1 28 67 30 33 30 25 1966 0.017 30 1 85 1965 48 1957 35 30 46 1951 21 1975 0.062 30 0.74 1950 0.00 29 67 30 0.65 1966 1 30 66 30 83 1971 50 1975 34 30 49 1978 23 1949 0.037 30 0.00 0.25 1955 1 31 66 30 86 1976 51 1957 34 30 50 1967 21 1972 0.028 30 0.00 30 84 1976 52 1966 35 30 54 1963 24 1949 0.006 30 0.14 1963 0.00 2 66 1 23 1956 0.019 2 30 51 1955 30 46 1968 30 0.48 1960 0.00 2 67 81 1976 34 54 1958 0.94 1975 2 3 69 30 95 1963 45 1949 34 30 22 1955 0.057 30 0.00 30 2.12 1958 2 69 30 88 1963 50 1949 35 30 49 1976 19 1955 0.099 0.00 2 49 1976 30 0.76 1969 0.00 5 67 30 90 1963 35 30 50 1978 22 1955 0.077 1.11 1969 56 1969 30 51 1978 22 1955 0.139 30 0.00 30 92 1963

SA	N JA	CIN	TO,	CAL	JFOR.	NIA	Period	of Re	ecord	Daı	ly Clii	mate	Summ	ary			Page	2 of 7
2	7	68	30	86	1963	51	1949	38	30	52	1954	24	1964	0.048	29	0.44	1976	0.00
2	8	67	30		1970		1959	38	30		1976			0.108	30	1.30		0.00
2	9	66	30	89	1951	54	1959	38	30	52	1962	23	1956	0.115	30	1.64	1976	0.00
2	10	67	30		1971		1966	38	30		1957			0.153	30	2.11		0.00
	11	67	30		1971		1978	37	30		1957			0.115	30	1.14		0.00
	12	66	30		1971		1949	37	30	48	1962			0.039	30	0.28		0.00
	13	66	30		1977		1949	36	30		1969			0.081	30	0.94		0.00
2	14 15	66 67	30 30		1977 1977		1954 1956	37 35	30 30		1963 1962			0.041	30 30	0.87		0.00
2	16	68	30		1977		1956	36	30		1957	24		0.049	30		1959	0.00
2	17	69	30		1977		1956	36	30	51	1957	21		0.058	30		1955	0.00
2	18	68	30		1977		1952	37	30	54	1968	25		0.027	30		1969	0.00
2	19	67	30	89	1977	46	1969	35	30	50	1957	24	1955	0.071	30	1.01	1958	0.00
2	20	67	30	87	1977	49	1962	34	30	49	1957			0.014	30	0.32	1962	0.00
2	21	69	30		1965		1959	35	30		1968			0.027	30	0.48		0.00
2	22	68	30		1978		1969	35	30		1977	23		0.025	30		1969	0.00
2	23	68	30		1968		1969	36	30		1957			0.046	30		1969	0.00
2	24	69	30		1968		1977	37	30		1958	26		0.071	30		1969	0.00
2	25 26	69 68	30 30		1968 1963		1962 1962	36 36	30 30	50 44	1958 1960			0.082	30 30	0.19	1969	0.00
	27	68	30		1972	47		36	30		1968	23		0.013	30	0.19		0.00
2	28	69	29		1967		1960	37	30		1957	26		0.126	30		1970	0.00
2	29	66	7		1968		1952	39	7		1968			0.133	7	0.47		0.00
3	1	66	30	87	1967		1951	38	30		1978			0.233	30		1970	0.00
3	2	65	30	84	1972	51	1966	37	30	50	1978	17	1971	0.118	30	0.82	1978	0.00
3	3	66	30	85	1975	47	1976	36	30	49	1957	24	1971	0.027	30	0.52	1976	0.00
3	4	67	30		1972		1967	36	30		1961			0.022	30		1978	0.00
3	5	68	30		1972		1978	36	30	49	1975	26		0.084	30		1978	0.00
3	6	68	30		1972		1962	37	30		1975	24		0.116	30		1975	0.00
3	7	69	30		1957		1952	36	30		1975	27		0.078	30		1952	0.00
3	8 9	70 67	30 30		1955 1972		1974 1962	37 38	30 30	47 51	1968 1957	25 27		0.141	30 30		1975 1963	0.00
3	10	64	30		1972		1952	39	30	47	1975	29		0.056	30		1969	0.00
3	11	65	30		1972		1952	38	30	47	1978	25		0.078	30		1973	0.00
3	12	66	30		1972		1958	39	30	49		25		0.029	30		1978	0.00
3	13	67	30	85	1951	48	1952	38	30	52	1960	20		0.048	30	0.38	1967	0.00
3	14	71	30	85	1972		1952	36	30	49	1955			0.010	30		1967	0.00
3		71	30		1972		1965	36	30	45	1961			0.077	30		1965	0.00
	16	71	30		1972		1952	38	30	50	1958			0.109	30		1958	0.00
	17	70	30		1978		1954	40	30	54	1964			0.079	30		1963	0.00
3	18 19	71 72	30 30	87	1960 1972		1952 1962	38 39	30 30		1978 1967			0.003	30 30		1963 1962	0.00
3	20	72	30	88 87	1960		1954	40	30		1978			0.045	30		1973	0.00
3	21	73	30		1960		1973	38	30		1978			0.038	30		1958	0.00
3	22	70	30		1976		1964	39	30		1965			0.122	30		1954	0.00
3	23	69	30		1956		1964	38	29		1965			0.058	30		1964	0.00
3	24	71	30		1956		1954	40	29		1974		1957	0.037	30		1964	0.00
3	25	71	30	86	1978	49	1977	39	30	51	1960	31	1964	0.074	30	0.97	1977	0.00
3	26	71	30		1978		1973	41	30		1974			0.003	30		1977	0.00
3	27	72	30		1968		1973	41	30		1974			0.024	30		1958	0.00
3	28	72	30		1971		1961	41	30		1978			0.020	30		1963	0.00
3	29	73	30		1971		1953	40	30		1978			0.003	30		1953	0.00
3	30 31	72 71	30 30		1966 1966		1954 1949	40 41	30 30		1974 1978			0.007	30 30		1954 1978	0.00
3	1	72	30		1966		1958	41	30		1969			0.122	30		1958	0.00
4	2	71	30		1961		1958	41	30		1969			0.062	30		1968	0.00
4	3	74			1961		1958	39	30		1966			0.049	30		1958	0.00
4	4	75	30		1961		1965	40	30		1961			0.046	30		1951	0.00
4	5	76	30		1960	56	1951	41	30	53	1961	26	1955	0.005	30		1955	0.00
4	6	73	30		1977		1975	42	30		1961			0.034	30		1975	0.00
4	7	73	30		1962		1975	41	30		1959			0.075	30		1958	0.00
4	8	75	30		1962		1975	41	30		1963			0.050	30		1965	0.00
4	9	75	30	88	1960	54	1965	40	30	48	1966	24	1953	0.035	29	0.45	1965	0.00

SA	N J.	ACIN'	ГΟ,	CAL	JFORI	NIA	Period	of Re	ecord	Dai	ly Clir	nate	Summ	ary			Page	3 of 7
4	10	74	30	92	1949	56	1965	42	30	52	1966	29	1953	0.051	30	0.93	1952	0.00
4	11	75	30	93	1962	51	1967	41	30	51	1969	25	1953	0.038	30	0.98		0.00
4		77	30		1962		1965	41	30		1969			0.008	30	0.13	1976	0.00
4		77	30		1962		1956	42	30		1969			0.068	30	1.24		0.00
	14	74	30		1962		1956	42	30		1969			0.012	30	0.22		0.00
	15	77	30		1964		1976	43	30		1957			0.009	30	0.18		0.00
	16	77	30		1962		1970	42	30		1971			0.018	30	0.48		0.00
	17 18	74 72	30 30		1950 1962		1970 1967	43 43	30 30		1971 1964			0.039	30	0.64		0.00
	19	73	30		1950		1972	43	30		1959			0.016	30 30	0.62		0.00
4		76	30		1958		1967	42	30		1951			0.030	30	0.58		0.00
4	21	76	30		1949		1967	43	30		1951			0.040	30	0.78		0.00
4	22	77	30		1962		1957	42	30		1950			0.021	30	0.33		0.00
4	23	76	30	99	1962	57	1957	44	30	53	1969	34	1970	0.005	30	0.12	1960	0.00
4		76	30		1965		1967	43	30		1959			0.006	30	0.13	1967	0.00
4	(C11)(C12)(C)	75	30		1965		1971	44	30		1950			0.024	30	0.53		0.00
4	26	74	30		1973		1963	43	30		1950			0.039	30	0.57		0.00
4	27	76	30		1965		1970	43	30		1950			0.024	30	0.48		0.00
4	28 29	76 76	30 30		1961 1959		1952 1964	44 45	30 30		1965 1965			0.036	30 30	0.45		0.00
4	30	78	30		1976		1973	44	30		1958			0.018	30	0.57		0.00
5	1	79	30		1966		1955	45	30		1959			0.021	30	0.68		0.00
5	2	81	30		1966		1955	45	30		1958			0.000	30	0.01		0.00
5	3	79	30		1966		1950	45	30		1968			0.003	30	0.04		0.00
5	4	77	30		1962		1964	46	30		1968			0.004	30	0.04		0.00
5	5	77	30	93	1962	57	1971	44	30	54	1956	34	1959	0.006	30	0.19	1969	0.00
5	6	77	30	96	1963	55	1964	45	30		1972			0.022	30	0.32		0.00
5	7	78	30		1962		1964	45	30		1958			0.037	30	0.82		0.00
5	8	80			1961		1955	46	30		1974			0.064	30	1.52		0.00
5	9	80	30		1961		1977	46	30		1974			0.041	30	0.93		0.00
5 5	10 11	82 82			1960 1960		1966 1957	47 46	30 30	54	1958 1969			0.022	30 30	0.35 0.76		0.00
	12	82			1976		1957	46	30	55	1976			0.028	30	0.78		0.00
	13	82			1976		1957	46	30		1971			0.001	30	0.04		0.00
	14	80			1972		1949	47	30		1960			0.031	30	0.37		0.00
	15	81			1970		1953	47	30		1960			0.014	30	0.26		0.00
5	16	83			1967		1962	47	30	53	1960			0.007	30	0.09		0.00
5	17	85	30	102	1970	57	1949	48	30	60	1973	37	1955	0.006	30	0.14	1962	0.00
5	18	85	30		1968		1949	48	30		1969			0.000	30		1949	0.00
5	19	85	30		1966		1949	47	30		1973			0.010	30	0.13		0.00
5	20	84			1967		1975	46	30		1966			0.006	30	0.19		0.00
5	21 22	84			1967		1975	47	30		1966			0.003	30		1957	0.00
5	23	83 81	30 30		1967 1949		1971 1965	47 48	30 30		1969 1967			0.000	30 30	0.00		0.00
5	24	82	30		1949		1977	48	30		1969			0.017	30		1977	0.00
5	25	83			1974		1955	48	30		1964			0.003	30	0.08		0.00
5	26	86			1974		1962	49	29		1974			0.001	30	0.02		0.00
5	27	85	30	106	1968	64	1971	49	30	57	1968			0.008	30	0.25		0.00
5	28	85	30	106	1973	59	1971	50	30	56	1976	40	1964	0.006	30	0.14	1971	0.00
5	29	86	30	104	1978		1967	51	30		1972			0.005	30	0.11		0.00
5	30	84			1969		1967	50	30		1972			0.001	30	0.03		0.00
5	31	84			1972		1967	50	29		1972			0.000	30	0.00		0.00
6	1	86			1970		1965	49	29		1972			0.000	29	0.00		0.00
6	2	88			1970		1971	48	29		1970			0.000	29	0.00		0.00
6	3 4	87 88			1957 1957		1971 1962	50 50	29 29		1972 1957			0.000	29 29	0.00		0.00
6	5	87			1957		1962	50	29		1977			0.001	29	0.03		0.00
6	6	86			1973		1963	51	29		1977			0.002	29	0.06		0.00
6	7	85			1973		1968	52	29		1972			0.000	29	0.00		0.00
6	8	85			1973		1968	51	29		1972			0.004	29	0.11		0.00
6	9	84			1973		1971	51	29		1972			0.004	29		1972	0.00
6	10	84			1949		1967	49	29		1972			0.013	29		1976	0.00
6	11	88	29	102	1975	66	1969	50	29	58	1957	39	1953	0.003	29	0.04	1971	0.00

SA	N J.	ACIN	ΤΟ,	CAL	JFOR	NIA	Period	ot Re	cord	Daı	ly Clii	mate	Summ	ary			Page	4 of 7
6	12	88	29	104	1956	65	1967	50	29	58	1971	39	1952	0.001	29	0.04	1967	0.00
	13	89	29	106	1966		1967	51	29		1959			0.001	29	0.02		0.00
6	14	92	29	112	1961	66	1962	51	29	58	1957	40	1952	0.000	29	0.00	1977	0.00
	15	91			1961		1962	51	29		1969			0.004	29		1962	0.00
	16	90			1961		1965	52	29		1958			0.000	29	0.00		0.00
	17	91			1977		1953	51	29		1961			0.000	29	0.00		0.00
6		93			1973		1975	51	29		1968			0.000	29		1977	0.00
6		94 95			1961 1971		1975 1975	52 51	29 29		1966 1961			0.000	29 29		1977 1972	0.00
6		97			1973		1969	52	29		1972			0.001	29		1972	0.00
6		96			1973		1972	53	29		1949			0.001	29		1972	0.00
6		96			1973		1965	54	29		1961			0.000	29		1977	0.00
6		96			1970		1969	54	28		1961			0.001	29		1969	0.00
6	25	95	29	110	1964	78	1955	53	29	65	1957	43	1950	0.000	29	0.01	1965	0.00
6	26	95	28	108	1974	77	1954	53	28	67	1957			0.000	28	0.00	1977	0.00
6		97			1974		1954	53	29		1959			0.000	29		1977	0.00
6		96			1974		1952	52	29		1976			0.000	29		1977	0.00
6		97			1972		1955	52	29		1956			0.000	29		1977	0.00
6		98			1969		1955	51	29		1977 1950			0.000	29		1977	0.00
7	. 8	99 98			1969 1950		1955 1955	51 53	30 30		1950			0.000	30 30		1977 1977	0.00
7		99			1973		1955	53	30		1970			0.000	30		1977	0.00
7		99			1973		1955	53	30		1970			0.000	30		1977	0.00
7		99			1973		1963	54	30		1970			0.000	30		1977	0.00
7		98			1976		1969	54	30		1950			0.001	30		1950	0.00
7	7	100			1976	83	1968	53	30	66	1968	43	1952	0.007	30	0.21	1968	0.00
7	8	100	30	111	1961	89	1950	55	30	63	1968	47	1963	0.001	30	0.04	1968	0.00
7	_	101			1958		1950	55	30		1950			0.000	30		1977	0.00
7		93			1959			56	30		1959			0.013	30		1957	0.00
7		100			1971		1955	56	30			47		0.001	30		1967	0.00
	12	99			1972		1962	55	30		1968	46		0.000	30		1977	0.00
7		100			1972 1960		1962 1968	56 56	30 30	67	1967 1974	43 44		0.004	30 30		1954 1977	0.00
7		100			1960		1976	57	30		1965			0.000	30		1977	0.00
7		100			1960		1976	57	30		1977			0.000	30		1977	0.00
		100			1960		1975	58	30		1961			0.003	30		1965	0.00
		99			1960		1975	57	30		1956			0.007		0.21		0.00
7	19	100	30	113	1960	94	1972	57	30	72	1960	45	1962	0.000	30	0.00	1977	0.00
7		100			1960		1972	57	30	68	1960			0.000	30		1977	0.00
7	9900	99			1967		1961	57	30	72	1960			0.001	30		1960	0.00
7		100			1966		1948	57	30		1971			0.001	30		1976	0.00
7		101			1963		1958	57	30	65				0.006	30		1974	0.00
7		100 100			1959 1973		1954 1949	58 58	30 30		1959 1959			0.021	30 30		1952 1977	0.00
7		100			1977		1976	59	30		1964			0.001	30		1976	0.00
7		100			1977		1949	60	30		1960			0.003	30		1960	0.00
7		101			1972		1948	59	30		1968			0.014	30		1951	0.00
7		100			1972		1961	60	30		1972			0.008	30		1958	0.00
7	2000				1972	83	1961	60	30		1972		1948	0.013	30	0.38	1965	0.00
7	31	101	30	113	1972	86	1950	60	30	70	1972	50	1970	0.000	30	0.00	1977	0.00
8		101			1972		1953	59	30		1972			0.000	30		1977	0.00
8		101			1971		1956	59	30		1971			0.000	30		1977	0.00
8		100			1969		1976	58	30		1955			0.000	30		1977	0.00
8		100			1969		1955	56	30		1961			0.000	30		1977	0.00
8		101			1969		1954 1957	56 57	29		1961 1972			0.000	29		1977 1968	0.00
8		101 100			1970 1975		1963	57 57	29 29		1972			0.004	29 29		1968	0.00
8		101			1971		1949	57	29		1959			0.000	29		1977	0.00
8		100			1965		1949	57	29		1971			0.000	29		1977	0.00
8		100			1967		1949	57	29		1965			0.003	29		1965	0.00
8		100			1967		1949	57	29	69				0.017	29		1965	0.00
8		100			1962		1954	57	29		1965			0.011	29		1953	0.00
8	13	100	28	113	1962	88	1954	57	29	69	1958	44	1975	0.001	29	0.02	1965	0.00

SA	N J	ACIN	TO,	CAL	JFOR	NIA	Period	of Re	cord	Daı	ly Clii	mate	Summ	ary			Page	5 of /
8	14	100	29	112	1967	87	1976	57	30	68	1965	42	1954	0.002	30	0.07	1958	0.00
8	15	99	29	109	1962	79	1976	57	30	72	1967			0.006	30	0.18	1977	0.00
8		99			1962		1977	57	30		1977			0.016	30	0.26		0.00
8	17	99			1950		1977	57	30		1977			0.044	30	1.33		0.00
8		100			1950		1976	57	29		1970			0.016	29	0.26		0.00
8	19 20	98 99			1950 1969		1959 1959	58 56	29 29		1961 1973			0.002	29 29	0.07		0.00
8	21	99			1969		1975	55	29	68	1961			0.013	29	0.39		0.00
8	22	99			1969		1960	55	29		1961			0.001	29	0.03		0.00
8	23	99	28	111	1964	91	1977	55	29	67	1961	47		0.001	29	0.04	1959	0.00
8	24	99			1962		1960	56	29	68	1967	45		0.000	29	0.00		0.00
8	25	99			1962		1954	56	29	69	1970			0.000	29	0.00		0.00
8	26 27	98			1962 1962		1973 1956	56 56	29 29	66	1959 1951			0.005	29	0.14		0.00
8	28	98 98			1967		1956	55	29	68 67	1968	44		0.007	29 29	0.00		0.00
8	29	99			1967		1951	54	29	65	1967			0.001	29		1951	0.00
8	30	98			1955		1953	55	29		1967	47		0.000	29		1977	0.00
8	31	98			1950	82	1964	55	29	74	1967	46		0.000	29	0.01	1964	0.00
9		99			1969		1964	54	29	67	1967	46		0.000	29		1977	0.00
9		98			1950		1961	54	29		1967			0.013	29	0.26		0.00
9		98 99			1955 1955		1967 1963	55 55	29 29		1950 1972			0.007	29 29	0.14	1972	0.00
9		99			1955		1903	55	29		1974			0.000	29		1977	0.00
9		99			1955		1965	56	29		1972			0.029	29		1958	0.00
9		99			1955		1965	57	29		1975			0.021	29		1958	0.00
9		98			1971	81	1962	56	29	66	1971	42		0.000	29	0.00	1977	0.00
9		99			1969		1950	56	29		1976			0.000	29		1977	0.00
9		97			1953		1972	56	29		1960			0.061	29		1976	0.00
9	11.900	95 95			1971 1971		1976 1976	55 54	29 29	71 71	1959 1959	41 37		0.052	29 29		1976 1977	0.00
9		95			1971		1970	53	29	69		2000		0.009	29		1959	0.00
9		94			1971		1976	52	29		1971			0.000	29		1977	0.00
9		93			1951		1976	51	29		1976			0.001	29		1976	0.00
9		92			1951		1959	53	29	65	1975	37		0.000	29		1977	0.00
9		91			1951		1965	53	29		1975			0.046	29		1963	0.00
	18	90			1962		1963	53	29		1975			0.040	29		1963	0.00
9	19 20	90 90			1962 1974		1972 1976	52 52	29 29		1952 1952			0.042	29 29		1952 1952	0.00
9		92			1975		1961	52	29		1976			0.000	29		1977	0.00
9		93			1949		1961	52	29	62	1961			0.003	29		1962	0.00
9	23	94	28	108	1966		1958	51	28	62	1966	38	1953	0.001	28	0.04	1958	0.00
9	11770	94			1963		1976	53	28		1964			0.015	28		1976	0.00
9		92			1963		1976	52	28		1976			0.013	28		1976	0.00
9		92 92			1963 1963		1976 1953	51 52	28 29		1963 1977			0.000	28 29		1977 1977	0.00
9		90			1963		1959	51	29		1976			0.042	29		1967	0.00
9					1963		1971	50	29		1967			0.013	29		1967	0.00
9					1972		1959	50	29		1976			0.000	29		1977	0.00
10		91			1962		1959	49	29		1968			0.012	29		1959	0.00
10					1964		1976	49	29		1968			0.001	29		1976	0.00
10					1964		1954	49	29		1963			0.008	29		1970	0.00
10		88 89			1964 1964		1956 1956	50 49	29 29		1963 1963			0.005	29 29		1956 1962	0.00
10					1964		1973	50	29		1972			0.000	29		1977	0.00
10					1964		1961	50	29		1972			0.000	29		1977	0.00
10		88			1971	63	1949	48	29	60	1977	40	1970	0.001	29	0.04	1973	0.00
10					1971		1960	46	29		1972			0.008	29		1972	0.00
	10				1971		1960	46	29		1967			0.041	29		1966	0.00
	11				1971		1957	45	29		1966			0.027	29		1957	0.00
	12 13				1950 1950		1957 1957	45 46	29 29		1972 1958			0.032	29 29		1957 1957	0.00
	14	87			1961		1968	46	29		1958			0.003	29		1972	0.00
	15				1961		1957	47	29		1961			0.003	29		1964	0.00

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10 17 86 29 103 1959 61 1971 45 29 57 1964 36 1966 0.014 29 0.22 1971 0.00 10 19 83 29 99 1967 62 1949 44 29 56 1977 35 1969 0.022 29 0.45 1963 0.00 10 19 83 29 99 1967 65 19194 44 29 56 1977 35 1969 0.020 29 0.45 1963 0.00 10 21 82 29 96 1965 66 1957 45 29 67 1965 29 1949 0.017 29 0.37 1972 0.00 10 21 82 29 106 1965 66 1957 45 29 67 1965 29 1949 0.020 29 0.58 1957 0.00 10 22 82 29 105 1965 55 1953 44 29 57 1960 29 1952 0.050 29 0.39 1976 0.00 10 23 81 29 103 1959 65 1953 44 29 57 1960 29 1952 0.050 29 1.39 1976 0.00 10 25 81 29 98 1968 66 1971 42 29 57 1960 29 1952 0.050 29 0.39 1976 0.00 10 26 80 29 97 1965 60 1974 42 29 58 1958 30 1954 0.022 29 0.24 1971 0.00 10 27 81 29 99 1968 60 1971 43 29 59 1959 30 1954 0.002 29 0.39 1976 0.00 10 28 82 29 97 1965 60 1971 43 29 59 1959 20 1959 20 10 10 29 0.00 1970 0.00 10 29 82 29 97 1965 66 1971 41 29 53 1964 27 1971 0.013 29 0.03 1974 0.00 10 30 79 29 96 1962 65 1959 42 29 68 1967 21 1971 0.013 29 0.02 1979 0.00 11 1 76 29 94 1966 60 1951 41 29 53 1957 22 1957 0.00 29 0.26 1977 0.00 11 1 77 82 99 94 1966 60 1959 42 29 56 1957 20 1971 0.012 29 0.62 1957 0.00 11 1 78 29 94 1966 60 1959 42 29 56 1957 20 1971 0.012 29 0.62 1957 0.00 11 1 78 29 94 1966 60 1959 42 29 56 1957 20 1971 0.021 29 0.62 1957 0.00 11 1 78 29 94 1966 60 1959 42 29 56 1957 20 1971 0.021 29 0.62 1957 0.00 11 1 78 29 94 1965 60 1959 42 29 56 1957 20 1971 0.021 29 0.62 1957 0.00 11 1 78 29 94 1966 60 1959 42 29 56 1957 20 1971 0.021 29 0.62 1957 0.00 11 1 78 29 94 1966 60 1959 42 29 56 1957 20 1971 0.021 29 0.62 1957 0.00 11 1 78 29 94 1966 60 1959 42 29 57 1968 20 1959 0.00 29 0.24 1960 0.00 11 1 79 79 29 94 1968 60 1959 42 29 57 1960 0.00 29 0.00 1957 0.00 11 1 79 79 29 94 1966 60 1959 42 29 57 1960 0.00 29 0.00 1957 0.00 11 1 79 79 29 94 1966 60 1959 42 29 57 1960 0.00 29 0.00 1957 0.00 11 1 79 79 29 94 1966 60 1959 42 29 57 1960 0.00 29 0.00 1960 0.00 11 79 79 29 94 1966 60 1959 42 29 57 1960 0.00 29 0.00 1960 0.00 11 79 79 29 94 1966 60 1959 42 29 57 1960 0.00 29 0.00 1960 0.00 11 79 79 29 94 1966	10 :	16	86	29	102	1958	59	1971	45	29	57	1958	33	1966	0.016	29	0.26 19	71 0.00
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11         18         70         29         88         1949         56         1964         37         29         58         1965         21         1958         0.062         29         1.10         1973         0.00           11         19         71         29         85         1954         52         1953         37         29         55         1967         26         1975         0.052         29         1.56         1967         0.00           11         20         71         29         88         1962         57         1955         38         29         52         1965         25         1953         0.026         29         0.42         1967         0.00           11         21         71         29         87         1950         55         1951         37         29         53         1965         0.026         29         0.42         1967         0.00           11         23         74         29         89         1968         49         1958         27         1952         0.010         29         0.19         1965         0.00           11         24         75         29																		
11 19       71       29       83 1966       60 1973       37       29       55 1967       21 1958 0.073       29       1.56 1967       0.00         11 20       71       29       85 1954       52 1953       37       29       55 1967       26 1975 0.059       29       1.00 1963       0.00         11 21       71       29       87 1950       55 1951       37       29       53 1965       25 1953       0.026       29       0.42 1967       0.00         11 22       71       29       87 1950       55 1951       37       29       53 1965       26 1953       0.067       29       1.63 1965       0.00         11 23       74       29       89 1968       49 1952       35       29       54 1965       29 1975       0.108       29       2.10 1965       0.00         11 25       74       29       90 1949       54 1951       36       29       49 1958       27 1951       0.010       29       0.24 1965       0.00         11 26       73       29       93 1977       55 1964       37       29       50 1958       27 1952       0.010       29       0.51 1970       0.00         11 27       72	11	17	70	29	89	1949	45	1964	38				19					
11 20       71       29       85 1954       52 1953       37       29       55 1967       26 1975       0.059       29       1.00 1963       0.00         11 21       71 29       88 1962       57 1955       38       29       52 1965       25 1953       0.026       29       0.42 1967       0.00         11 22       71 29       87 1950       55 1951       37       29       53 1965       26 1953       0.067       29       1.63 1965       0.00         11 23       74       29       89 1968       49 1952       35       29       54 1965       29 1975       0.108       29       2.10 1965       0.00         11 25       74       29       90 1949       54 1965       36       29       49 1958       27 1951       0.010       29       0.24 1965       0.00         11 26       73       29       93 1977       55 1964       37       29       50 1958       27 1951       0.019       29       0.24 1965       0.00         11 27       72       28       85 1977       57 1973       36       28       47 1964       25 1952       0.020       28       0.28 1975       0.00         11 29       72																		
11       21       71       29       88       1962       57       1955       38       29       52       1965       25       1953       0.026       29       0.42       1967       0.00         11       22       71       29       87       1950       55       1951       37       29       53       1965       26       1953       0.067       29       1.63       1965       0.00         11       23       74       29       89       1968       49       1952       35       29       54       1965       29       1975       0.108       29       2.10       1965       0.00         11       24       75       29       90       1949       54       1951       36       29       52       1965       27       1952       0.010       29       0.19       1965       0.00         11       26       73       29       31       1977       55       1964       37       29       50       1958       27       1951       0.010       29       0.24       1965       0.00         11       26       73       29       31       1975       36       <																		
11 22       71 29       87 1950       55 1951       37 29       53 1965       26 1953 0.067       29 1.63 1965       0.00         11 23 74 29       89 1968       49 1952       35 29       54 1965       29 1975 0.108       29 2.10 1965       0.00         11 24 75 29       90 1949       54 1951       36 29       52 1965       27 1952 0.010       29 0.19 1965       0.00         11 25 74 29       92 1977       56 1965       36 29       49 1958       27 1951 0.019       29 0.24 1965       0.00         11 26 73       29 93 1977       55 1964       37 29       50 1958       27 1950 0.026       29 0.51 1970       0.00         11 27 72       28 85 1977       57 1973       36 28 47 1964       25 1952 0.020       28 0.28 1975       0.00         11 29 72       28 86 1950       54 1975       35 28 51 1966       21 1976 0.031       28 0.71 1975       0.00         11 29 72       28 87 1964       53 1975       36 28 49 1971       24 1976 0.059       28 1.40 1970       0.00         11 30 70 28 87 1964       55 1961       36 28 48 1971       25 1976 0.020       28 0.28 1967       0.00         12 1 70 28 88 1949       53 1955 35       28 48 1955       28 1976 0.007       28 0.28 1967       0.00     <					87,077	William Control												
11 23       74       29       89 1968       49 1952       35       29       54 1965       29 1975       0.108       29       2.10 1965       0.00         11 24       75       29       90 1949       54 1951       36       29       52 1965       27 1952       0.010       29       0.19 1965       0.00         11 25       74       29       92 1977       56 1965       36       29       49 1958       27 1951       0.019       29       0.24 1965       0.00         11 26       73       29       93 1977       55 1964       37       29       50 1958       27 1966       0.026       29       0.51 1970       0.00         11 28       72       28       85 1977       57 1973       36 28       47 1964       25 1952       0.020       28       0.28 1975       0.00         11 29       72       28       87 1964       53 1975       36       28       49 1971       24 1976       0.031       28       0.71 1975       0.00         11 29       72       28       87 1964       55 1961       36       28       49 1971       24 1976       0.059       28       1.40 1976       0.00         12 1 70																		
11 24       75       29       90 1949       54 1951       36       29       52 1965       27 1952       0.010       29       0.19 1965       0.00         11 25       74       29       92 1977       56 1965       36       29       49 1958       27 1951       0.019       29       0.24 1965       0.00         11 26       73       29       93 1977       55 1964       37       29       50 1958       27 1966       0.026       29       0.51 1970       0.00         11 27       72       28       85 1977       57 1973       36       28       47 1964       25 1952       0.020       28       0.28 1975       0.00         11 28       72       28       86 1950       54 1975       35       28       51 1966       21 1976       0.031       28       0.71 1975       0.00         11 29       72       28       87 1964       55 1961       36       28       49 1971       24 1976       0.059       28       1.40 1970       0.00         12 1 70       28       85 1949       53 1955       35       28       48 1971       25 1976       0.020       28       0.28 1967       0.00         12 2 70																		
11       26       73       29       93       1977       55       1964       37       29       50       1958       27       1966       0.026       29       0.51       1970       0.00         11       27       72       28       85       1977       57       1973       36       28       47       1964       25       1952       0.020       28       0.28       1975       0.00         11       28       72       28       86       1950       54       1975       35       28       51       1966       21       1976       0.031       28       0.71       1975       0.00         11       29       72       28       87       1964       53       1975       36       28       49       1971       24       1976       0.059       28       1.40       1970       0.00         11       30       70       28       85       1949       53       1955       35       28       48       1971       25       1976       0.020       28       0.28       1967       0.00         12       1       70       28       88       1958       55 <t< td=""><td></td><td></td><td>75</td><td></td><td>90</td><td>1949</td><td>54</td><td>1951</td><td>36</td><td>29</td><td>52</td><td>1965</td><td>27</td><td>1952</td><td>0.010</td><td>29</td><td>0.19 19</td><td>65 0.00</td></t<>			75		90	1949	54	1951	36	29	52	1965	27	1952	0.010	29	0.19 19	65 0.00
11       27       72       28       85       1977       57       1973       36       28       47       1964       25       1952       0.020       28       0.28       1975       0.00         11       28       72       28       86       1950       54       1975       35       28       51       1966       21       1976       0.031       28       0.71       1975       0.00         11       29       72       28       87       1964       53       1975       36       28       49       1971       24       1976       0.059       28       1.40       1970       0.00         11       30       70       28       87       1964       55       1961       36       28       48       1971       25       1976       0.020       28       0.28       1967       0.00         12       1       70       28       85       1949       53       1955       35       28       48       1975       0.00       28       0.09       1973       0.00         12       7       0.28       88       1958       55       1970       36       28 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>																		
11       28       72       28       86       1950       54       1975       35       28       51       1966       21       1976       0.031       28       0.71       1975       0.00         11       29       72       28       87       1964       53       1975       36       28       49       1971       24       1976       0.059       28       1.40       1970       0.00         11       30       70       28       87       1964       55       1961       36       28       48       1971       25       1976       0.020       28       0.28       1967       0.00         12       1       70       28       85       1949       53       1955       35       28       48       1955       28       1976       0.007       28       0.09       1973       0.00         12       2       70       28       88       1958       55       1970       36       28       49       1964       26       1953       0.00       28       1.26       1961       0.00         12       3       70       28       86       1958       56       1																		
11       29       72       28       87       1964       53       1975       36       28       49       1971       24       1976       0.059       28       1.40       1970       0.00         11       30       70       28       87       1964       55       1961       36       28       48       1971       25       1976       0.020       28       0.28       1967       0.00         12       1       70       28       85       1949       53       1955       35       28       48       1955       28       1976       0.007       28       0.09       1973       0.00         12       2       70       28       88       1958       55       1970       36       28       49       1964       26       1953       0.069       28       1.26       1961       0.00         12       3       70       28       86       1955       36       28       53       1966       24       1953       0.083       28       1.12       1974       0.00         12       4       69       28       86       1962       49       1955       36       2																		
11       30       70       28       87       1964       55       1961       36       28       48       1971       25       1976       0.020       28       0.28       1967       0.00         12       1       70       28       85       1949       53       1955       35       28       48       1955       28       1976       0.007       28       0.09       1973       0.00         12       2       70       28       88       1958       55       1970       36       28       49       1964       26       1953       0.069       28       1.26       1961       0.00         12       3       70       28       90       1958       56       1955       36       28       53       1966       24       1953       0.069       28       1.26       1961       0.00         12       4       69       28       86       1962       49       1955       36       28       51       1950       27       1952       0.103       28       1.12       1974       0.00         12       5       68       28       86       1977       53       19																		
12       1       70       28       85       1949       53       1955       35       28       48       1955       28       1976       0.007       28       0.09       1973       0.00         12       2       70       28       88       1958       55       1970       36       28       49       1964       26       1953       0.069       28       1.26       1961       0.00         12       3       70       28       90       1958       56       1955       36       28       53       1966       24       1953       0.083       28       2.14       1966       0.00         12       4       69       28       86       1962       49       1955       36       28       51       1950       27       1952       0.103       28       1.12       1974       0.00         12       5       68       28       86       1977       53       1972       35       28       53       1966       24       1953       0.089       27       1.56       1966       0.00         12       6       69       28       84       1977       50       195																		
12       3       70       28       90       1958       56       1955       36       28       53       1966       24       1953       0.083       28       2.14       1966       0.00         12       4       69       28       86       1962       49       1955       36       28       51       1950       27       1952       0.103       28       1.12       1974       0.00         12       5       68       28       86       1977       53       1972       35       28       53       1966       24       1953       0.089       27       1.56       1966       0.00         12       6       69       28       84       1977       50       1951       34       28       57       1966       20       1960       0.026       28       0.53       1966       0.00         12       7       68       29       85       1962       51       1971       34       29       50       1966       19       1960       0.014       29       0.19       1966       0.00         12       8       67       29       86       1975       49       197																		
12       4       69       28       86       1962       49       1955       36       28       51       1950       27       1952       0.103       28       1.12       1974       0.00         12       5       68       28       86       1977       53       1972       35       28       53       1966       24       1953       0.089       27       1.56       1966       0.00         12       6       69       28       84       1977       50       1951       34       28       57       1966       20       1960       0.026       28       0.53       1966       0.00         12       7       68       29       85       1962       51       1971       34       29       50       1966       19       1960       0.014       29       0.19       1966       0.00         12       8       67       29       86       1975       49       1972       33       29       50       1974       19       1951       0.025       29       0.26       1959       0.00         12       9       67       28       87       1962       50       197	12	2	70	28														
12       5       68       28       86       1977       53       1972       35       28       53       1966       24       1953       0.089       27       1.56       1966       0.00         12       6       69       28       84       1977       50       1951       34       28       57       1966       20       1960       0.026       28       0.53       1966       0.00         12       7       68       29       85       1962       51       1971       34       29       50       1966       19       1960       0.014       29       0.19       1966       0.00         12       8       67       29       86       1975       49       1972       33       29       50       1974       19       1951       0.025       29       0.26       1959       0.00         12       9       67       28       87       1962       50       1972       35       28       52       1965       20       1960       0.041       29       0.98       1965       0.00         12       10       67       28       85       1958       45       19																		
12       6       69       28       84       1977       50       1951       34       28       57       1966       20       1960       0.026       28       0.53       1966       0.00         12       7       68       29       85       1962       51       1971       34       29       50       1966       19       1960       0.014       29       0.19       1966       0.00         12       8       67       29       86       1975       49       1972       33       29       50       1974       19       1951       0.025       29       0.26       1959       0.00         12       9       67       28       87       1962       50       1972       35       28       52       1965       20       1960       0.041       29       0.98       1965       0.00         12       10       67       28       85       1958       45       1972       35       28       51       1959       22       1956       0.066       29       0.78       1965       0.00         12       11       68       28       84       1958       49       1																		
12       7       68       29       85       1962       51       1971       34       29       50       1966       19       1960       0.014       29       0.19       1966       0.00         12       8       67       29       86       1975       49       1972       33       29       50       1974       19       1951       0.025       29       0.26       1959       0.00         12       9       67       28       87       1962       50       1972       35       28       52       1965       20       1960       0.041       29       0.98       1965       0.00         12       10       67       28       85       1958       45       1972       35       28       51       1959       22       1956       0.066       29       0.78       1965       0.00         12       11       68       28       84       1958       49       1972       34       28       49       1965       24       1953       0.000       29       0.00       1977       0.00         12       12       68       28       84       1958       54																		
12       8       67       29       86       1975       49       1972       33       29       50       1974       19       1951       0.025       29       0.26       1959       0.00         12       9       67       28       87       1962       50       1972       35       28       52       1965       20       1960       0.041       29       0.98       1965       0.00         12       10       67       28       85       1958       45       1972       35       28       51       1959       22       1956       0.066       29       0.78       1965       0.00         12       11       68       28       84       1958       49       1972       34       28       49       1965       24       1953       0.000       29       0.00       1977       0.00         12       12       68       28       84       1958       54       1972       32       28       47       1951       18       1949       0.035       29       0.76       1951       0.00																		
12     9     67     28     87     1962     50     1972     35     28     52     1965     20     1960     0.041     29     0.98     1965     0.00       12     10     67     28     85     1958     45     1972     35     28     51     1959     22     1956     0.066     29     0.78     1965     0.00       12     11     68     28     84     1958     49     1972     34     28     49     1965     24     1953     0.000     29     0.00     1977     0.00       12     12     68     28     84     1958     54     1972     32     28     47     1951     18     1949     0.035     29     0.76     1951     0.00																		
12 11 68 28 84 1958 49 1972 34 28 49 1965 24 1953 0.000 29 0.00 1977 0.00 12 12 68 28 84 1958 54 1972 32 28 47 1951 18 1949 0.035 29 0.76 1951 0.00							50	1972			52	1965	20	1960	0.041		0.98 19	65 0.00
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10 10 60 00 00 1050 40 1075 00 00 40 1050 00 1060 0 016 00 0 00 1067 0 10																		
12 13 69 29 83 1958 49 1975 33 29 43 1950 22 1963 0.016 29 0.22 1967 0.10 12 14 68 29 81 1977 47 1967 33 29 43 1970 22 1964 0.010 29 0.16 1965 0.00																		
12 14 66 29 81 1977 47 1967 33 29 43 1970 22 1964 0.010 29 0.10 1963 0.00																		
12 16 68 29 82 1958 46 1967 35 29 52 1957 21 1963 0.020 29 0.21 1967 0.00																		
12 17 67 29 84 1958 53 1970 35 29 48 1957 24 1975 0.052 29 0.63 1952 0.00			67	29	84	1958	53	1970	35	29	48	1957	24	1975	0.052	29	0.63 19	52 0.00

SA	N J	ACIN	10,	CAL	JFOR	NIA	Period	of Re	ecord	Dai	ly Clir	nate	Summ	ary			Page	/ 01 /
12	18	67	29	82	1958	49	1967	34	29	50	1962	25	1968	0.046	29	0.76	1967	0.00
12	19	66	29	80	1960	45	1967	34	29	47	1962	23	1955	0.064	29	0.91	1970	0.00
12	20	67	29	82	1950	44	1968	34	29	48	1969	27	1971	0.062	29	1.01	1952	0.07
12	21	66	28	79	1972	49	1968	32	28	50	1959	20	1968	0.052	29	0.94	1970	0.00
12	22	65	28	80	1961	52	1965	34	28	48	1969	22	1968	0.042	29	0.74	1971	0.00
12	23	66	28	80	1961	55	1974	34	28	50	1955	23	1956	0.023	29	0.39	1971	0.00
12	24	65	28	84	1961	50	1970	34	28	52	1971	17	1953	0.060	29	0.85	1959	0.00
12	25	65	28	78	1960	51	1968	34	28	53	1971	17	1953	0.037	29	0.95	1971	0.00
12	26	66	29	79	1963	54	1971	33	29	53	1977	19	1953	0.055	29	0.77	1977	0.00
12	27	65	29	80	1963	46	1971	32	29	53	1977	18	1962	0.039	29	0.48	1971	0.00
12	28	63	29	82	1963	46	1971	33	29	55	1977	17	1954	0.077	29	0.83	1977	0.00
12	29	64	29	78	1956	51	1971	33	29	52	1977	20	1954	0.066	29	0.97	1951	0.00
12	30	64	29	76	1961	54	1951	32	29	52	1977	20	1969	0.109	29	2.16	1951	0.00
12	31	64	29	82	1963	50	1951	32	29	46	1977	19	1953	0.031	29	0.36	1976	0.00

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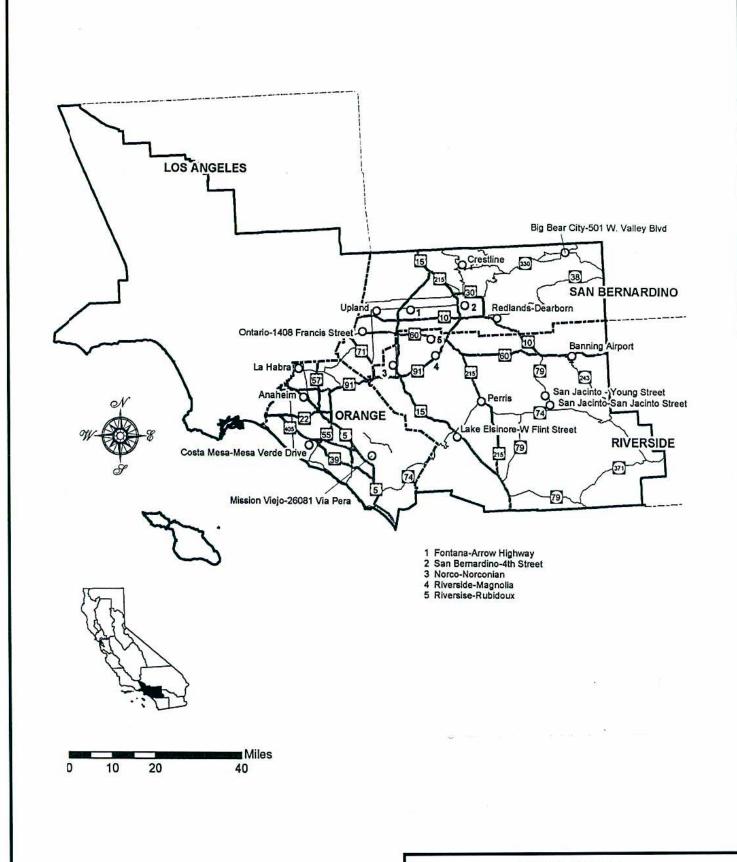
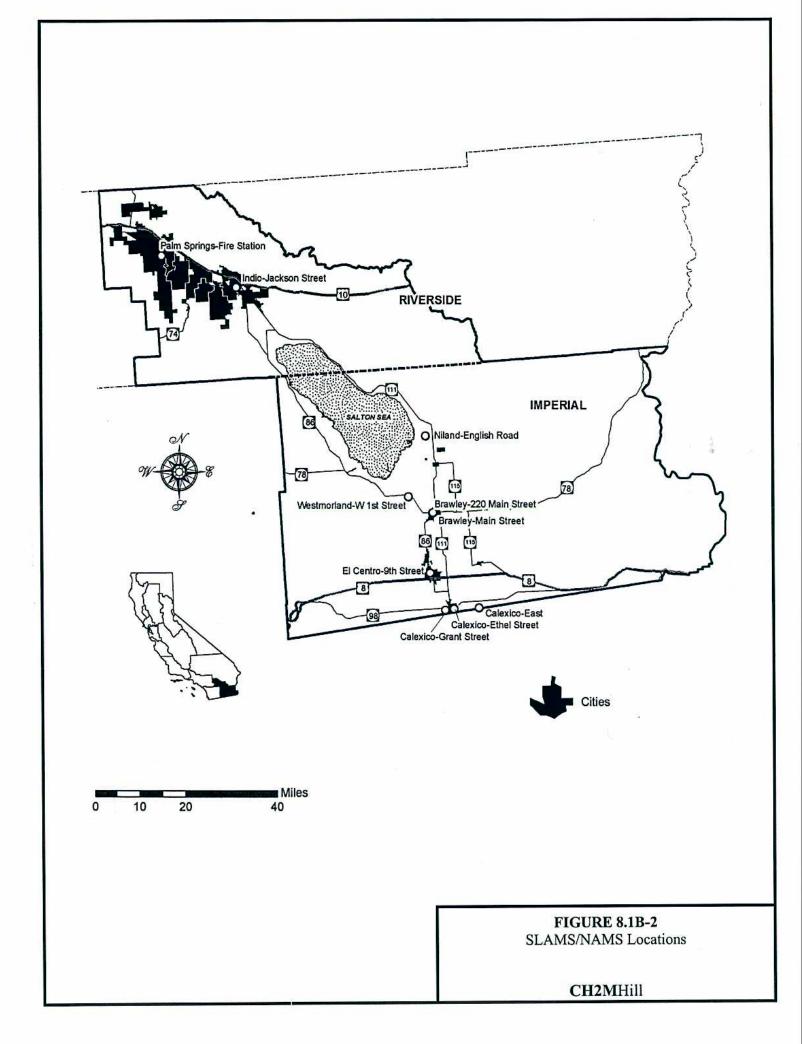


FIGURE 8.1B-1 SLAMS/NAMS Locations

CH2MHill



### **Table 8.1B-10**

Modeling Inputs/Results for SVEP Construction Impacts (Combustion Sources as 67 Point Sources)

Short Term Impacts (24 hrs and less)	Impacts (	24 hrs and	less)		Long	Term Impacts (annual)	ts (annual)		
	XON	00	SOx	PM10		NOx	CO	SOx	PM10
Combustion (lbs/day)	80.24	48.74	10.97	5.53	Combustion (tons/yr)	3.37	1.95	0.48	0.26
					Combustion (days/yr)	312	312	312	312
Combustion (hrs/day)	12	12	12	12	Combustion (hrs/day)	12	12	12	12
Combustion (lbs/hr)	69.9	4.06	0.91	0.46		1.80	1.04	0.26	0.14
Combustion (g/sec)	8.43E-01	5.12E-01	1.15E-01	5.81E-02	Combustion (g/sec)	2.27E-01	1.31E-01	3.23E-02	1.75E-02
Point Sources (g/s/stack)	1.257E-02	7.638E-03	1.719E-03	8.666E-04	29	7 3.385E-03	1.959E-03	4.822E-04	2.612E-04
Construction Dust (lbs/dav)				9.2	Construction Dust (tons/yr)				0.36
//					Construction Dust (days/yr)				312
Construction Dust (hrs/day)				12					12
Construction Dust (lbs/hr)				0.76	Construction Dust (lbs/hr)				0.19
Construction Dust (g/sec)				9.63E-02	Construction Dust (g/sec)				2.41E-02
SCST3 Inputs	66350 m2	n2	16.40 Acres	Acres					
Combustion (a/s/m2)	1.270E-05	7.713E-06	1.736E-06	8.751E-07	Combustion (g/s/m2)	3.419E-06	1.978E-06	4.869E-07	2.638E-07
Construction Dust (g/s/m2)				1,451E-06	Construction Dust (g/s/m2)				3.632E-07
SCST3 Results (ug/m3)									
Combustion Only					Combustion Only				
	72 CT	77 100	9000	5 00381					
3-hour Max	cno.7)	44.102	3.920	3.71087					
S CM TION 8		007.70		2 77861					
24-hour Max		00T:T2	2 518	1 26932	Annua	1.676		0.239	0.12930
(D)			i		L				
All Particulate Sources				34 42083	All Particulate Sources Annual	le le			7 20784
1 Pour NOo w/ Ol M	72 G05	for Ava Ro	for Ava 82 4p O3/ppm)	0.165	0 165 Applial NO2 w/ ARM	1 257	based on ARM Ratio of	1 Ratio of	75%
FIDGI INCE W. OLIVI	12:000	BO BAY IOI	(indd)co dt	201.0	Background	- W			
Background	707	04554	52.7		Background				
3-bour Max	C.181	0133.1	53.2						
CONT. INC.		7 07 17	1						
8-hour Max		4542.4	000	707				0	101
24-hour Max			39.9	164	Annua	45.9		0.0	0.00
Total + Background	0 830	8197	63.1		Total + Background				
3 hour May	2:207	5	909						
8-born Max		4567	2						
24-hour Max		loot.	42.4	198	Annual	al 47.2		8.2	65.7

**Table 8.1B-11** 

Standards Comparison for Sun Valley Energy Project Construction Impacts	Standards (ug/m3) Construction Only Construction+Background	Construction Only	tion+ % of Standards % of Standards	ound National California National California National California	9 - 470 - 15% - 56%	- 100 - 47% -	7 40000 23000 0% 0% 20% 36%	7 10000 10000 0% 0% 46% 46%	- 655 - 2% - 10%	3 1300 - 1% - 5% -	1 365 105 1% 2% 12% 40%	- 0% - 10% -	4 150 50 23% 69% 132% 397%	
rds (ug/m3) Constructic % of Stan % of Stan 470 - 1% 23000 0% 10000 0% 655 - 1% - 1% 105 0% - 0%	% of Stan % of Stan 470 - 1% 23000 0% 10000 0% 655 - 1% 105 0% - 105 0% - 105 0%	% of Stan % of Stan	California National 470 - 1% 23000 0% 10000 0% 655 - 1% - 1% 105 1%	- <del>2</del> %% - <del>2</del> %% 0 % % 0 % 0 % 0 % 0 % 0 % 0 % 0 % 0	1% 0% - 1% 0%	00 - 1 2 - 2 - 8 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9	0% 1 1% 0%	- 4 4 % % % %	0 4 %	- 0 %			23%	30   14% 24%
Standard National 100	National - 100	National - 100	National - 100	100	100	00007	40000	10000	ľ	1300	365	80	150	20
Impacts (ug/m3) Construction Construction+ Only Background 72.6 263.9 1.3 47.2	n Construction+ Background 263.9 47.2	Background 263.9 47.2	Background 263.9 47.2	263.9 47.2	47.2		8197	4567	63.1	9.09	42.4	8.2	198.4	65.7
Impac Constructic Only 72.6	Constructic Only 72.6	Constructic Only 72.6	Only 72.6	72.6	7		44	24	6.6	7.4	2.5	0.2	34.4	7.2
Averaging Time 1-Hr	Averaging Time 1-Hr	Averaging Time 1-Hr	Time 1-Hr	구-	4	Annual	1-Hr	8-Hr	1 <del>-</del> H	3-H	24-Hr	Annual	24-Hr	Annual
			Pollutant		XON		99		SOx				PM10	